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Mr. Mark Verhey
Humboldt County Health Department
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

July 27, 2005

**Re: Second Quarter 2005 Groundwater Monitoring and
Groundwater Extraction System Report**
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard, Fortuna, CA
HCDEH LOP No. 12093
Blue Rock Project No. FNC-3

Dear Mr. Verhey,

This report presents the results of the second quarter 2005 groundwater monitoring activities and remedial groundwater extraction system status at 390 South Fortuna Boulevard, Fortuna, Humboldt County, California (site) (Figure 1), and was prepared for Humboldt Petroleum, Inc. (HPI) by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description

The site is located in a commercial and residential area of Fortuna, Humboldt County, California. The site is owned by Humboldt Petroleum, Inc.

Site History

In March 1989, four fuel underground storage tanks (USTs) were removed from the site in March 1989 (Figure 1). Delta Environmental Consultants, Inc. (Delta) of Rancho Cordova, California observed the tank removal, and initiated a site investigation. The site is currently under the oversight of the HCDEH.

Site Investigation History

Subsurface investigation activities have been ongoing at the site since 1989. A total of approximately 29 soil borings (CPT-1 through CPT-8, SW-1 through SW-20, and HP-1) have been drilled at the site (Figure 2). Additionally, approximately 20 monitoring wells at the site: 17 shallow monitoring wells (MW-1 through MW-8, MW-10 through MW-16, and RW-4B and RW-5, screened no deeper than 20 feet bgs) and three deep wells (DW-1 through DW-3, screened from 30 to 40 feet bgs) (Table 4). Groundwater sample data are summarized on Tables 1.

Summary of Contaminant Type

The predominant contaminant types that have been detected in the subsurface include total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and the fuel oxygenates MTBE.

Summary of Hydrogeology

The first couple feet below grade consists of baserock fill. The site is underlain by sediments characterized as fine-grained soil (CL/ML) from ~2 feet bgs to depth of ~15 feet bgs, and lenses of sand and gravel have been described locally in this unit at a depth of approximately 5 feet bgs. This fine-grained unit is underlain by sands (SW) and gravel (GW) from ~15 to 22 feet bgs. From ~22 to ~26 feet bgs, which is underlain by sands and gravels to a depth of ~40 feet bgs (the maximum depth explored), except for the area of DW-3 where sand appears to be continuous in depth from ~15 to ~40 feet bgs.

Many of the monitoring wells are screened from 5 to 20 feet bgs. Resulting static water levels have been several feet apart at times and may represent that the wells are screened across two water bearing zones. The shallow water levels observed MW-2, RW-4B, and MW-13 may be the result of localized, perched zone, as past drilling and excavation observations possibly indicate thin, laterally discontinuous zones at depths of approximately 5 feet bgs. These conditions have been specifically observed during previous drilling of wells MW-1, MW-2 and MW-11, as intersecting a seasonal (December through June) shallow water-bearing (perched) zone (~4-8 feet bgs). Additionally, during the drilling of DW-1 through DW-3 in April 1996, soil samples collected at a depth of approximately 5 feet bgs were described as "wet", yet no water collected in the borehole. Also, during drilling of RW-4, the hole was dry to a depth 20 feet. RW-4 was drilled with the intention to collect and remove LNAPL on groundwater; however, no water entered this borehole and it was grouted without construction of a well. It is unknown how long previous borings were left open, and at which depths, to allow water to accumulate.

During the excavation of EX-2, the condition of the hole was observed and photographed at depths of 5, 8, and 12 feet bgs; however, no water accumulated at those depths. Excavation of EX-2 continued, and water with floating LNAPL was encountered at a depth of approximately 14 feet bgs, which began to rise rapidly. This condition suggests that this water bearing zone may be confined.

During the excavation for EX-1, the condition of the hole was similar to that for EX-2, except for the following observations. A thin (~1 foot thick) lens at approximately 10 feet bgs contained water, which slowly dripped down the sidewall. During excavation of EX-1, water with floating LNAPL was encountered at a depth of approximately 20 feet bgs, which also rose rapidly. Stabilized water level in the excavation after standing for a night was approximately 16 to 17 feet bgs.

Summary of Remedial Efforts

An active LNAPL skimming system was installed at the site and operated from 1991 to 1998. LNAPL was skimmed from wells MW-1, MW-4, and MW-5. It was estimated that this active LNAPL skimming system removed approximately 1,369 gallons. Hand-bailing and/or passive LNAPL skimming has been ongoing since 1998. Currently, a passive skimmer is deployed in MW-6; however, no wells at the site including MW-6, have contained measurable thicknesses of LNAPL since June 2003.

In August 2001, Clearwater performed remedial activities detailed in the *Final Remedial Action Plan Addendum*, dated January 19, 2001. Approximately 1,241 tons of hydrocarbon contaminated soil were removed from the site and treated at Bio Industries in Red Bluff, California. Approximately 9,500 gallons of hydrocarbon contaminated groundwater were removed from the excavation to facilitate digging operations and the installation of groundwater extraction trenches (EX-1 and EX-2). Pilot testing results determined pumping rate, discharge time and recharge time for each groundwater extraction trench. Results of these activities are presented in Clearwater's *Soil Excavation, Extraction Trench Installation and Groundwater Extraction Pilot Testing Report*, dated September 21, 2001. In August 2002, the groundwater extraction and treatment system became operational. The system continues to operate by extracting groundwater from EX-1 and EX-2. As of the end of 2004, it was estimated that approximately 1,000,000 gallons of groundwater has been extracted and 150 lbs of gasoline recovered.

Field and Laboratory Activities

Groundwater Monitoring Activities

On June 1, 2005, all wells except for MW-8 and MW-10 were gauged and MW-1, MW-4, MW-5, MW-6, MW-12, MW-14, DW-1, DW-3, and RW-5 were sampled. Monitoring well RW-4B has been covered by a permanent structure constructed on the neighboring property.

Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ± 0.01 -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized.

Following recovery of water levels to at least 80% of their static levels in the other wells, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox® wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinsate water was transferred into the 300-gallon surge tank located on the groundwater extraction treatment system for treatment and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical LLC (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHg, BTEX, and MTBE by EPA Method 5030/8260B.

Groundwater Monitoring Results

Groundwater Flow Direction and Gradient

Static groundwater in the wells was present beneath the site at depths ranging from approximately 3.37 (MW-13) to 13.71 (MW-1) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevations, and to generate a groundwater elevation and gradient map. If the data for wells MW-2 and MW-13 are excluded as anomalously high, the resulting shallow potentiometric map shows generally westerly flow, with cones of depression around the two extraction basins (EX-1 and EX-2) (Figure 3a). The potentiometric surface for wells screened in the lower zone is almost flat, but appears to show flow toward the south-southwest at a shallow gradient of 0.00035 ft/ft (Figure 3b).

Groundwater Contaminant Analytical Results

LNAPL:	None
TPHg concentration:	<50 ($\mu\text{g/L}$) (DW-1, DW-3) to 77,000 $\mu\text{g/L}$ (MW-4)
Benzene concentration:	<0.50 $\mu\text{g/L}$ (MW-5, MW-12, DW-1, DW-3) to 4,600 $\mu\text{g/L}$ (MW-1)
MTBE Concentration:	<0.50 $\mu\text{g/L}$ (MW-14) to 160 $\mu\text{g/L}$ (MW-1)

Groundwater sample analytical results are shown graphically on Figures 4a, 4b, and 4c, and cumulative groundwater sample analytical results are summarized in Table 1. Copies of the laboratory report and chain-of-custody form are attached.

LNAPL Removal Status

Location:	MW-6
Volume LNAPL removed during quarter:	0.0 gals (~0 lbs)
Volume LNAPL removed since January 1998:	124 gals (~752 lbs) (assume 1 gal of fuel = 6.08 lbs)
Volume LNAPL prior to January 1998:	1,369 gals (~8,323 lbs)
Total LNAPL recovered:	1,493 gals (~9,077 lbs)

Monitoring well MW-6 did not contain LNAPL this quarter, and has not contained LNAPL since June 2003.

Groundwater Extraction/Discharge Monitoring

Operational Data - Groundwater Extraction/Treatment System

Extracted groundwater is treated by passing it through three liquid-phase carbon vessels arranged in series (Figure 5). Influent samples are collected at sample port (Influent), located before the 300 gallon transfer tank (Table 2). Effluent samples are collected at sample port (Effluent), located downstream of the third carbon vessel (Table 2). Treated groundwater is then discharged to the sanitary sewer located on the southwest corner of the site. The groundwater treatment system is operated in accordance with the Fortuna Public Works Department.

The following is a summary of operational data pertaining to the groundwater extraction/treatment system:

- Total effluent discharge: 2,069,870 gals water treated (since startup in August 2002)
- Effluent discharge this quarter: 826,290 gals treated water
- TPHg recovery this quarter: 76 lbs (Table 3)
- Total TPHg recovery: 259 lbs to date (Table 3)

System Status - Groundwater Extraction/Treatment System

Groundwater has been extracted from extraction basin EX-1 since initial startup on August 5, 2002. Continuous groundwater extraction from extraction trench EX-2 was started on April 7, 2003, when the previous consultant performed remedial groundwater pumping from MW-6, in an attempt to remove remaining LNAPL from MW-6 and proximal area. This activity was able to remove the remaining LNAPL from MW-6.

Project Status and Recommendations

- Blue Rock recommends continuing groundwater extraction operations and quarterly groundwater monitoring as directed by the HCDEH.
- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for September 2005. Groundwater samples will be analyzed for TPHg, BTEX, and MTBE. The current groundwater sampling schedule is MW-1, MW-4, MW-5, MW-6, MW-12, MW-14, DW-1, DW-3, and RW-5 (quarterly) and MW-2, MW-3, MW-7, MW-11, MW-13, MW-15, MW-16, DW-2, and RW-4B (annually during first quarter). Monitoring wells MW-8 and MW-10 have been removed from the quarterly sampling schedule. The groundwater extraction system is operational and influent and effluent samples are collected monthly and submitted in subsequent quarterly reports.
- Blue Rock will prepare a workplan for additional evaluation of potential shallow water bearing zones and residual sorbed-phase contaminant assessment, as requested by the HCDEH in a letter dated February 14, 2005 and discussed in a meeting on June 2, 2005. The workplan will be prepared and submitted shortly under separate cover. The information derived from that work will be used to more accurately describe site conditions, site conceptual model, and in the evaluation of potential alternatives to compliment and/or enhance the existing remedial approach.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

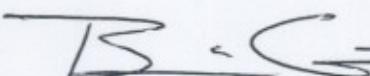
Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

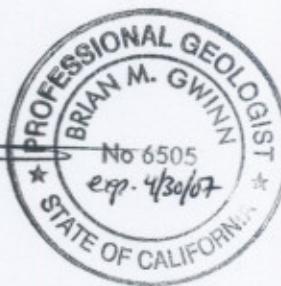


Scott Ferriman
Project Scientist

Reviewed by:



Brian Gwinn, PG
Principal Geologist



Attachments:

- Table 1: Groundwater Elevations and Analytical Results
- Table 2: Groundwater Extraction System Analytical Results
- Table 3: Cumulative Hydrocarbon Recovery From Groundwater
- Table 4: Well Construction Details
- First-Order Decay Rates for Dissolved-Phase Hydrocarbons 6/02 to 6/05
- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3a: Groundwater Elevations and Gradient Map, Shallow Wells – 6/1/05
- Figure 3b: Groundwater Elevations and Gradient Map, Deep Wells – 6/1/05
- Figure 4a: Dissolved-Phase TPHg Distribution Map – 6/1/05
- Figure 4b: Dissolved-Phase Benzene Distribution Map – 6/1/05
- Figure 4c: Dissolved-Phase MTBE Distribution Map – 6/1/05
- Figure 5: Groundwater Extraction System Schematic
- Blue Rock Gauge/Purge Calculations and Well Purging Data field sheets
- Laboratory Analytical Report and Chain-of-Custody Form

Distribution:

- Mr. Jim Seiler, Humboldt Petroleum, Inc. P.O. Box 131, Eureka, CA 95502
- Mr. Bruce Gehrkey, City of Fortuna Public Works Dept., P.O. Box 545, Fortuna, CA 95540

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	4/5/90	54.63	---	---	---	220,000	2,500	6,700	3,500	19,000	---
	4/9/90	54.63	7.00	0.01	47.64	---	---	---	---	---	---
Screen	5/12/90	54.63	10.84	0.00	43.79	---	---	---	---	---	---
5'-20'	7/26/90	54.63	---	---	---	87,000	3,600	4,400	4,400	13,000	---
	9/27/90	54.63	17.60	3.60	39.91	---	---	---	---	---	---
	10/23/90	54.63	17.39	3.80	40.28	---	---	---	---	---	---
	11/14/90	54.63	11.63	2.85	45.28	---	---	---	---	---	---
	12/14/90	54.63	12.70	2.87	44.23	---	---	---	---	---	---
	1/11/91	54.63	13.61	2.84	43.29	---	---	---	---	---	---
	2/28/91	54.63	11.30	2.45	45.29	---	---	---	---	---	---
	3/19/91	54.63	9.02	2.75	47.81	---	---	---	---	---	---
	4/16/91	54.63	9.73	3.06	47.35	---	---	---	---	---	---
	6/20/91	54.63	12.95	2.25	43.48	---	---	---	---	---	---
	7/24/91	54.63	14.05	2.11	42.27	---	---	---	---	---	---
	11/21/91	Skimmer activated				---	---	---	---	---	---
	1/22/92	54.63	13.16	0.00	41.47	---	---	---	---	---	---
	4/7/92	54.63	9.97	0.00	44.66	---	---	---	---	---	---
	5/4/92	54.63	10.50	0.14	44.24	---	---	---	---	---	---
	6/4/92	54.63	12.96	0.09	41.74	---	---	---	---	---	---
	7/10/92	54.63	14.22	0.05	40.45	---	---	---	---	---	---
	8/5/92	54.63	15.71	0.09	38.99	---	---	---	---	---	---
	10/28/92	54.63	17.03	0.00	37.60	---	---	---	---	---	---
	1/12/93	54.63	12.10	0.00	42.53	---	---	---	---	---	---
	2/4/93	54.63	11.40	0.00	43.23	---	---	---	---	---	---
	5/5/93	54.63	10.40	0.00	44.23	---	---	---	---	---	---
	8/30/93	54.63	15.03	0.08	39.66	---	---	---	---	---	---
	9/14/93	54.63	15.08	0.08	39.61	---	---	---	---	---	---
	10/12/93	54.63	15.51	0.00	39.12	---	---	---	---	---	---
	11/29/93	54.63	16.03	0.00	38.60	---	---	---	---	---	---
	12/21/93	54.63	11.97	0.00	42.66	---	---	---	---	---	---
	1/12/94	54.63	10.08	0.00	44.55	---	---	---	---	---	---
	2/22/94	54.63	7.39	0.00	47.24	---	---	---	---	---	---
	3/24/94	54.63	8.97	0.00	45.66	---	---	---	---	---	---
	4/26/94	54.63	9.43	0.00	45.20	---	---	---	---	---	---
	5/18/94	54.63	10.64	0.00	43.99	---	---	---	---	---	---
	6/20/94	54.63	12.88	0.00	41.75	---	---	---	---	---	---
	9/27/94	54.63	16.18	0.00	38.45	---	---	---	---	---	---
	10/19/94	54.63	16.27	0.00	38.36	---	---	---	---	---	---
	12/23/94	54.63	8.73	0.00	45.90	---	---	---	---	---	---
	3/25/95	54.63	6.62	0.00	48.01	---	---	---	---	---	---
	4/15/96	54.63	6.62	0.00	48.01	11,000	130	10	260	310	3,000
	2/24/97	54.63	5.71	0.00	48.92	6,600	88	<13	150	262	1,200
	5/26/97	54.63	7.41	0.00	47.22	9,600	100	<20	250	360	1,000
	9/5/97	54.63	13.36	0.00	41.27	7,100	13	<20	56	77	190
	12/11/97	54.63	8.40	0.00	46.23	5,100	80	<2.5	22	122	1,900
	4/9/98	54.63	5.49	0.00	49.14	4,000	90	3	120	100	180
	6/22/98	54.63	3.40	0.00	51.23	9,000	140	210	170	391	<250
	9/26/98	54.63	12.72	0.00	41.91	670	4	<0.5	2.6	6.6	160
	1/14/99	54.63	5.93	0.00	48.70	13,000	170	<80	220	435	550
	3/30/99	54.63	5.11	0.00	49.52	95	3.9	<0.5	1.50	1.7	12*
	6/28/99	54.63	9.37	0.00	45.23	9,700	95	24	140	273	120
	10/5/99	54.63	12.57	0.00	42.06	6,200	100	<20	92	175	120
	12/10/99	54.63	10.97	0.00	43.66	7,900	99	<30	63	100	78
	3/23/00	54.63	5.57	0.00	49.06	3,800	79	<40	63	85	33
	6/7/00	54.63	8.02	0.00	46.61	2,160	45	<3.0	48	129	<20 *
	9/14/00	54.63	13.13	0.00	41.50	5,140	251	<3.0	67.5	126	32.3*
	11/29/00	54.63	11.96	0.00	42.67	7,470	44	<30	31	80	<200*

Table 1
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 Fortuna Beacon Petro Mart
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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	3/21/01	54.63	11.09	0.00	43.54	4,690	42.4	1.5	50.6	133	69.1*
	6/5/01	54.63	12.42	0.00	42.21	5,700	65	1.3	38	110	110*
Screen	9/6/01	54.63	14.98	0.00	39.65	6,100	120	390	51	210	81*
5'-20'	12/11/01	54.63	11.98	0.00	42.65	7,200	230	640	130	520	230*
	3/12/02	54.63	10.18	0.00	44.45	9,800	220	610	180	660	170*
	6/11/02	54.63	12.12	0.00	42.51	4,800	170	100	67	190	340*
	9/9/02	57.77	15.63	0.00	42.14	4,900	130	28	33	81	280*
	12/20/02	57.77	14.11	0.00	43.66	4,600	95	52	46	170	230*
	3/12/03	57.77	11.51	0.00	46.26	6,100	85	110	87	320	200*
	6/6/03	57.77	11.25	0.00	46.52	4,400	120	20	31	81	180*
	9/17/03	57.77	15.34	0.00	42.43	4,600	170	28	40	79	210*
	12/5/03	57.77	14.22	0.00	43.55	4,000	140	27	43	97	240*
	3/15/04	57.77	9.84	0.00	47.93	4,700	100	23	46	100	140*
	6/9/04	57.77	12.20	0.00	45.57	4,400	240	24	32	59	180*
	9/13/04	57.77	14.54	0.00	43.23	3,800	240	32	33	55	200*
	12/10/04	57.77	12.97	0.00	44.80	5,400	640	47	36	66	150*
	3/24/05	57.77	13.70	0.00	44.07	11,000	2,600	60	42	70	110*
	6/1/05	57.77	13.71	0.00	44.06	13,000	4,600	140	64	92	160*
MW-2	4/5/90	55.63	---	---	---	860,000	4,200	18,000	7,100	47,000	---
	4/9/90	55.63	7.19	0.55	48.88	---	---	---	---	---	---
Screen	5/12/90	55.63	9.22	0.15	46.53	---	---	---	---	---	---
5'-20'	7/26/90	55.63	---	---	---	81,000	<500	2,600	1,400	13,000	---
	9/27/90	55.63	17.80	2.85	40.11	---	---	---	---	---	---
	10/23/90	55.63	18.64	3.90	40.11	---	---	---	---	---	---
	11/14/90	55.63	13.35	3.92	45.42	---	---	---	---	---	---
	12/14/90	55.63	10.15	2.79	47.71	---	---	---	---	---	---
	1/11/91	55.63	11.01	2.79	46.85	---	---	---	---	---	---
	2/28/91	55.63	7.15	0.75	49.08	---	---	---	---	---	---
	3/19/91	55.63	5.62	0.37	50.31	---	---	---	---	---	---
	4/16/91	55.63	6.34	0.49	49.68	---	---	---	---	---	---
	6/20/91	55.63	7.54	0.61	48.58	---	---	---	---	---	---
	7/24/91	55.63	8.00	0.99	48.42	---	---	---	---	---	---
	11/21/91	Skimmer activated		---	---	---	---	---	---	---	---
	1/22/92	55.63	6.61	0.05	49.06	---	---	---	---	---	---
	4/7/92	55.63	6.27	0.00	49.36	---	---	---	---	---	---
	5/4/92	55.63	6.50	0.23	49.31	---	---	---	---	---	---
	6/4/92	55.63	7.16	0.12	48.57	---	---	---	---	---	---
	7/10/92	55.63	11.50	4.08	47.39	---	---	---	---	---	---
	8/5/92	55.63	9.33	0.13	46.40	---	---	---	---	---	---
	10/28/92	55.63	7.75	0.28	48.10	---	---	---	---	---	---
	1/12/93	55.63	5.40	0.00	50.23	---	---	---	---	---	---
	2/4/93	55.63	5.78	0.00	49.85	---	---	---	---	---	---
	5/5/93	55.63	5.80	0.00	49.83	---	---	---	---	---	---
	8/30/93	55.63	13.61	0.03	42.04	---	---	---	---	---	---
	9/14/93	55.63	13.59	0.03	42.06	---	---	---	---	---	---
	10/12/93	55.63	15.84	0.00	39.79	---	---	---	---	---	---
	11/29/93	55.63	7.34	0.02	48.31	---	---	---	---	---	---
	12/21/93	55.63	5.99	0.00	49.64	---	---	---	---	---	---
	1/12/94	55.63	5.83	0.00	49.80	---	---	---	---	---	---
	2/22/94	55.63	4.84	0.00	50.79	---	---	---	---	---	---
	3/24/94	55.63	5.66	0.00	49.97	---	---	---	---	---	---
	4/26/94	55.63	5.62	0.00	50.01	---	---	---	---	---	---
	10/19/94	55.63	12.50	0.01	43.14	---	---	---	---	---	---
	11/23/94	55.63	6.18	0.00	49.45	---	---	---	---	---	---
	12/23/94	55.63	5.89	0.00	49.74	---	---	---	---	---	---
	1/25/95	55.63	5.23	0.00	50.40	---	---	---	---	---	---

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	2/23/95	55.63	6.09	0.00	49.54	---	---	---	---	---	---
	3/25/95	55.63	5.01	0.00	50.62	---	---	---	---	---	---
Screen	4/15/96	55.63	6.00	0.00	49.63	<50	<0.5	<0.5	<0.5	<2.0	<5.0
5'-20'	2/24/97	55.63	5.48	0.00	50.15	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/26/97	55.63	6.78	0.00	48.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	55.63	7.61	0.00	48.02	<50	<0.5	<0.5	<0.5	<0.5	31
	12/11/97	55.63	5.37	0.00	50.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/9/98	55.63	5.36	0.00	50.27	210	18	44	6	26	<5.0
	6/22/98	55.63	7.46	0.00	48.17	540	8	52	18	87	<5.0
	9/26/98	55.63	8.88	0.00	46.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/14/99	55.63	6.17	0.00	49.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/30/99	55.63	5.05	0.00	50.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/28/99	55.63	6.82	0.00	48.81	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	10/5/99	55.63	6.34	0.00	49.29	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	12/10/99	55.63	5.13	0.00	50.50	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	3/23/00	55.63	5.69	0.00	49.94	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	55.63	5.86	0.00	49.77	<50	<0.3	<0.3	<0.3	<0.6	<2.0 *
	9/14/00	55.63	5.80	0.00	49.83	53	1.2	4.5	1.0	5.5	<2.0 *
	11/29/00	55.63	5.72	0.00	49.91	<50	<0.3	<0.3	<0.3	<0.6	<2.0 *
	3/21/01	55.63	5.98	0.00	49.65	<50	<0.3	<0.3	<0.3	<0.6	<2.0 *
	6/5/01	55.63	6.28	0.00	49.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.63	7.07	0.00	48.56	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	55.63	5.28	0.00	50.35	---	---	---	---	---	---
	3/12/02	55.63	5.61	0.00	50.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	55.63	6.25	0.00	49.38	---	---	---	---	---	---
	9/9/02	58.79	6.67	0.00	52.12	---	---	---	---	---	---
	12/20/02	58.79	4.71	0.00	54.08	---	---	---	---	---	---
	3/12/03	58.79	6.01	0.00	52.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	58.79	6.05	0.00	52.74	---	---	---	---	---	---
	9/17/03	58.79	7.57	0.00	51.22	---	---	---	---	---	---
	12/5/03	58.79	6.68	0.00	52.11	---	---	---	---	---	---
	3/15/04	58.79	5.83	0.00	52.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	6/9/04	58.79	6.57	0.00	52.22	---	---	---	---	---	---
	9/13/04	58.79	6.82	0.00	51.97	---	---	---	---	---	---
	12/10/04	58.79	5.28	0.00	53.51	---	---	---	---	---	---
	3/24/05	58.79	5.34	0.00	53.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	6/1/05	58.79	6.05	0.00	52.74	---	---	---	---	---	---
MW-3	4/5/90	55.49	---	---	---	<50	<1.0	<1.0	<1.0	4.3	---
	4/9/90	55.49	11.93	---	43.56	---	---	---	---	---	---
Screen	5/12/90	55.49	12.82	---	42.67	---	---	---	---	---	---
5'-20'	7/26/90	55.49	---	---	---	<50	<1.0	<1.0	<1.0	0.94	---
	9/27/90	55.49	14.91	---	40.58	---	---	---	---	---	---
	10/23/90	55.49	14.70	---	40.79	---	---	---	---	---	---
	11/14/90	55.49	14.38	---	41.11	<50	<0.5	<0.5	<0.5	<0.5	---
	12/14/90	55.49	13.95	---	41.54	---	---	---	---	---	---
	1/11/91	55.49	14.85	---	40.64	---	---	---	---	---	---
	2/28/91	55.49	13.66	---	41.83	<50	<0.5	<0.5	<0.5	<0.5	---
	3/19/91	55.49	11.92	---	43.57	---	---	---	---	---	---
	4/16/91	55.49	11.04	---	44.45	---	---	---	---	---	---
	5/24/91	55.49	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	6/20/91	55.49	11.55	---	43.94	---	---	---	---	---	---
	7/24/91	55.49	11.74	---	43.75	---	---	---	---	---	---
	1/22/92	55.49	13.28	---	42.21	---	---	---	---	---	---
	4/7/92	55.49	11.53	---	43.96	---	---	---	---	---	---
	5/4/92	55.49	11.17	---	44.32	---	---	---	---	---	---
	6/4/92	55.49	12.68	---	42.81	---	---	---	---	---	---

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-3	7/10/92	55.49	13.62	---	41.87	---	---	---	---	---	---
	8/5/92	55.49	14.14	---	41.35	---	---	---	---	---	---
Screen	10/28/92	55.49	16.56	---	38.93	---	---	---	---	---	---
5'-20'	11/2/92	55.49	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	55.49	13.09	---	42.40	---	---	---	---	---	---
	2/4/93	55.49	12.19	---	43.30	---	---	---	---	---	---
	3/2/93	55.49	11.06	---	44.43	<50	<0.5	1.4	<0.5	0.60	---
	5/5/93	55.49	10.59	---	44.90	---	---	---	---	---	---
	8/30/93	55.49	14.49	---	41.00	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/93	55.49	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	12/21/93	55.49	14.81	---	40.68	---	---	---	---	---	---
	3/24/94	55.49	12.53	---	42.96	---	---	---	---	---	---
	4/26/94	55.49	12.71	---	42.78	---	---	---	---	---	---
	6/20/94	55.49	13.78	---	41.71	<50	<0.5	<0.5	<0.5	<0.5	---
	9/27/94	55.49	16.68	---	38.81	---	---	---	---	---	---
	10/19/94	55.49	16.88	---	38.61	---	---	---	---	---	---
	11/23/94	55.49	15.65	---	39.84	---	---	---	---	---	---
	12/23/94	55.49	14.09	---	41.40	---	---	---	---	---	---
	1/25/95	55.49	11.66	---	43.83	---	---	---	---	---	---
	2/23/95	55.49	11.61	---	43.88	---	---	---	---	---	---
	3/25/95	55.49	9.84	---	45.65	---	---	---	---	---	---
	4/15/96	55.49	10.40	---	45.09	<1,000	<10	<10	<10	<40	12,000
	2/24/97	55.49	9.85	---	45.64	<50	<0.5	<0.5	<0.5	<0.5	510
	5/25/97	55.49	11.44	---	44.05	110	<0.5	<0.5	<0.5	<0.5	530
	9/5/97	55.49	13.32	---	42.17	360	<0.5	<0.5	<0.5	<0.5	2,000
	12/11/97	55.49	12.26	---	43.23	---	---	---	---	---	---
	4/8/98	55.49	7.80	---	47.69	60	7.1	14	1.2	5	240
	6/22/98	55.49	NM	---	---	---	---	---	---	---	---
	9/26/98	55.49	NM	---	---	---	---	---	---	---	---
	1/14/99	55.49	11.05	---	44.44	---	---	---	---	---	---
	3/30/99	55.49	7.46	---	48.03	<50	<0.5	<0.5	<0.5	<0.5	9.8*
	6/28/99	55.49	--	---	---	---	---	---	---	---	---
	10/5/99	55.49	11.65	---	43.84	---	---	---	---	---	---
	12/10/99	55.49	10.99	---	44.50	---	---	---	---	---	---
	3/23/00	55.49	8.48	---	47.01	<50	<0.5	<0.5	<0.5	<1.0	1.9*
	6/7/00	55.49	9.72	---	45.77	---	---	---	---	---	---
	9/14/00	55.49	10.86	---	44.63	53	0.7	2.9	0.7	3.2	16.4*
	11/29/00	55.49	10.68	---	44.81	<50	<0.3	<0.3	<0.3	<0.6	52.2*
	3/21/01	55.49	9.49	---	46.00	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	55.49	10.29	---	45.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.49	12.38	---	43.11	<50	<0.5	<0.5	<0.5	<0.5	1.2*
	12/11/01	55.49	10.15	---	45.34	---	---	---	---	---	---
	3/12/02	55.49	5.64	---	49.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	55.49	10.28	---	45.21	---	---	---	---	---	---
	9/9/02	58.62	11.79	---	46.83	---	---	---	---	---	---
	12/20/02	58.62	10.62	---	48.00	---	---	---	---	---	---
	3/12/03	58.62	9.28	---	49.34	<50	6.1	<0.5	<0.5	2.8	70*
	6/6/03	58.62	9.28	---	49.34	---	---	---	---	---	---
	9/17/03	58.62	11.82	---	46.80	---	---	---	---	---	---
	12/5/03	58.62	11.79	---	46.83	---	---	---	---	---	---
	3/15/04	58.62	8.59	---	50.03	<50	<0.5	<0.5	<0.5	<0.5	12*
	6/9/04	58.62	10.28	---	48.34	---	---	---	---	---	---
	9/13/04	58.62	11.89	---	46.73	---	---	---	---	---	---
	12/10/04	58.62	10.39	---	48.23	---	---	---	---	---	---
	3/24/05	58.62	9.00	---	49.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/1/05	58.62	9.23	---	49.39	---	---	---	---	---	---

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-4	11/21/91	Skimmer activated				---	---	---	---	---	---
	7/13/92	55.03	---	---	---	71,000	320	4,300	1,200	7,100	---
Screen	10/28/92	55.03	18.32	1.89	38.22	---	---	---	---	---	---
5'-20'	11/9/92	55.03	---	(16.25)	---	---	---	---	---	---	---
	1/12/93	55.03	16.69	3.35	41.02	---	---	---	---	---	---
	2/4/93	55.03	14.82	2.46	42.18	---	---	---	---	---	---
	5/5/93	55.03	13.43	2.06	43.25	---	---	---	---	---	---
	5/10/93	55.03	10.81	0.03	44.24	---	---	---	---	---	---
	5/27/93	55.03	12.36	0.09	42.74	---	---	---	---	---	---
	8/30/93	55.03	15.15	0.32	40.14	---	---	---	---	---	---
	9/14/93	55.03	15.60	0.54	39.86	---	---	---	---	---	---
	10/12/93	55.03	15.80	0.00	39.23	---	---	---	---	---	---
	11/29/93	55.03	17.66	0.00	37.37	---	---	---	---	---	---
	12/21/93	55.03	15.08	0.01	39.96	---	---	---	---	---	---
	1/12/94	55.03	14.71	0.00	40.32	---	---	---	---	---	---
	2/22/94	55.03	14.71	0.00	40.32	---	---	---	---	---	---
	3/24/94	55.03	12.91	0.00	42.12	---	---	---	---	---	---
	4/26/94	55.03	12.79	0.00	42.24	---	---	---	---	---	---
	5/18/94	55.03	12.77	0.00	42.26	---	---	---	---	---	---
	6/20/94	55.03	13.77	0.04	41.29	---	---	---	---	---	---
	10/19/94	55.03	16.66	0.12	38.47	---	---	---	---	---	---
	11/23/94	55.03	16.01	0.35	39.30	---	---	---	---	---	---
	12/23/94	55.03	14.62	0.26	40.62	---	---	---	---	---	---
	1/25/95	55.03	12.19	0.05	42.88	---	---	---	---	---	---
	2/23/95	55.03	11.81	0.09	43.29	---	---	---	---	---	---
	3/25/95	55.03	10.55	0.00	44.48	---	---	---	---	---	---
	4/15/96	55.03	11.60	0.55	43.87	---	---	---	---	---	---
	2/24/97	55.03	11.00	0.02	44.05	100,000	3,700	13,000	2,200	14,200	<5,000
	5/26/97	55.03	11.55	0.05	43.52	---	---	---	---	---	---
	9/5/97	55.03	---	0.04	---	---	---	---	---	---	---
	12/11/97	55.03	13.33	0.01	41.71	190,000	5,300	16,000	2,900	16,900	<5,000
	4/8/98	55.03	9.40	0.03	45.65	---	---	---	---	---	---
	6/22/98	55.03	11.71	0.00	43.32	140,000	6,100	15,000	3,000	15,200	1,500
	9/26/98	55.03	14.10	HvySheen	40.93	120,000	6,800	19,000	4,100	16,000	2,400
	1/14/99	55.03	11.62	0.00	43.41	91,000	5,800	20,000	3,000	20,200	*190
	3/30/99	55.03	8.75	0.00	46.28	66,000	3,400	13,000	1,900	13,000	<40
	6/28/99	55.03	12.11	0.02	42.94	---	---	---	---	---	---
	10/5/99	55.03	---	0.08	---	---	---	---	---	---	---
	12/10/99	55.03	---	0.20	---	---	---	---	---	---	---
	3/23/00	55.03	9.85	0.00	45.18	200,000	7,900	20,000	3,300	17,400	<3,000
	6/7/00	55.03	11.81	0.00	43.22	87,900	4,500	10,900	2,470	10,500	579 *
	9/14/00	55.03	13.86	0.00	41.17	173,000	8,250	16,000	6,810	23,400	910*
	11/29/00	55.03	13.36	0.00	41.67	216,000	6,610	16,200	7,370	26,800	<2,000*
	3/21/01	55.03	11.17	0.00	43.86	53,900	3,360	8,460	2,520	8,610	244*
	6/5/01	55.03	12.44	0.00	42.59	85,000	4,600	11,000	3,000	11,000	400*
	9/6/01	55.03	14.94	0.00	40.09	110,000	4,700	13,000	3,200	12,000	360*
	12/11/01	55.03	12.07	0.00	42.96	110,000	5,200	14,000	3,300	15,000	400*
	3/12/02	55.03	10.3	0.00	44.73	75,000	4,700	14,000	2,800	13,000	190*
	6/11/02	55.03	12.16	0.00	42.87	110,000	4,700	16,000	3,300	15,000	150*
	9/9/02	58.18	14.99	0.00	43.19	82,000	4,700	11,000	3,300	11,000	350*
	12/20/02	58.18	13.79	0.00	44.39	94,000	5,100	14,000	3,400	14,000	240*
	3/12/03	58.18	11.42	0.00	46.76	100,000	3,700	18,000	3,100	16,000	<100*
	6/6/03	58.18	11.20	0.00	46.98	120,000	2,400	19,000	2,900	18,000	<50*
	9/17/03	58.18	15.26	0.00	42.92	96,000	2,800	14,000	3,100	16,000	<25*
	12/5/03	58.18	14.41	0.00	43.77	83,000	3,000	12,000	3,000	14,000	<50*
	3/15/04	58.18	9.96	0.00	48.22	81,000	1,500	11,000	1,900	12,000	<25*
	6/9/04	58.18	12.24	0.00	45.94	110,000	1,600	16,000	2,900	17,000	<50*

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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-4	9/13/04	58.18	14.63	0.00	43.55	92,000	2,200	12,000	3,200	17,000	<50*
	12/10/04	58.18	13.25	0.00	44.93	79,000	1,500	8,700	2,200	11,000	<20*
Screen	3/24/05	58.18	12.22	0.00	45.96	79,000	1,700	6,900	2,200	11,000	36*
5'-20'	6/1/05	58.18	12.11	0.00	46.07	77,000	1,800	6,800	2,800	10,000	46*
MW-5	11/21/91	Skimmer activated			---	---	---	---	---	---	---
	7/13/92	53.41	---	---	---	44,000	270	3,700	850	5,500	---
Screen	9/2/92	53.41	17.14	2.19	38.02	---	---	---	---	---	---
5'-20'	10/28/92	53.41	17.13	1.91	37.81	---	---	---	---	---	---
	11/9/92	53.41	---	(14.98)	---	---	---	---	---	---	---
	2/4/93	53.41	13.25	1.43	41.30	---	---	---	---	---	---
	5/5/93	53.41	11.40	0.72	42.59	---	---	---	---	---	---
	5/10/93	53.41	11.82	1.17	42.53	---	---	---	---	---	---
	5/27/93	53.41	11.58	0.02	41.85	---	---	---	---	---	---
	8/30/93	53.41	13.12	0.00	40.29	---	---	---	---	---	---
	9/14/93	53.41	13.21	0.00	40.20	---	---	---	---	---	---
	10/12/93	53.41	13.82	0.11	39.68	---	---	---	---	---	---
	12/21/93	53.41	13.31	0.01	40.11	---	---	---	---	---	---
	2/22/94	53.41	10.97	0.00	42.44	---	---	---	---	---	---
	3/24/94	53.41	10.69	0.00	42.72	---	---	---	---	---	---
	4/26/94	53.41	11.34	0.10	42.15	---	---	---	---	---	---
	5/18/94	53.41	11.09	0.00	42.32	---	---	---	---	---	---
	6/20/94	53.41	11.90	0.00	41.51	---	---	---	---	---	---
	9/27/94	53.41	14.98	0.00	38.43	---	---	---	---	---	---
	10/19/94	53.41	14.77	0.03	38.66	---	---	---	---	---	---
	11/23/94	53.41	14.11	0.00	39.30	---	---	---	---	---	---
	12/23/94	53.41	12.63	0.00	40.78	---	---	---	---	---	---
	1/25/95	53.41	10.63	0.00	42.78	---	---	---	---	---	---
	2/23/95	53.41	10.12	0.00	43.29	---	---	---	---	---	---
	3/25/95	53.41	8.74	0.00	44.67	---	---	---	---	---	---
	4/15/96	53.41	9.18	0.00	44.23	1,900	3.1	0.8	9.2	64	<50
	2/24/97	53.41	8.80	0.00	44.61	2,200	<4.0	10	<4.0	5.1	25
	5/26/97	53.41	10.82	0.00	42.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.41	12.38	0.00	41.03	56	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.41	12.62	0.00	40.79	---	---	---	---	---	---
	4/9/98	53.41	8.68	0.00	44.73	130	16	41	4.6	22	<5.0
	6/22/98	53.41	9.31	0.00	44.10	---	---	---	---	---	---
	9/26/98	53.41	13.20	0.00	40.21	---	---	---	---	---	---
	1/14/99	53.41	11.89	0.00	41.52	---	---	---	---	---	---
	3/30/99	53.41	7.35	0.00	46.06	<50	<0.5	0.65	<0.5	<0.5	<3.0
	6/28/99	53.41	11.04	0.00	42.37	---	---	---	---	---	---
	10/5/99	53.41	13.16	0.00	40.25	---	---	---	---	---	---
	12/10/99	53.41	11.84	0.00	41.57	---	---	---	---	---	---
	3/24/00	53.41	8.21	0.00	45.20	1,200	<4.0	<40	<2.0	<4.0	7.6
	6/7/00	53.41	10.71	0.00	42.70	---	---	---	---	---	---
	9/15/00	53.41	12.85	0.00	40.56	447	<0.3	1.3	0.8	3.0	5.6*
	11/29/00	53.41	12.23	0.00	41.18	833	<3.0	<0.3	<0.3	<0.6	10.2*
	3/21/01	53.41	10.13	0.00	43.28	1,110	<0.3	<0.3	<0.3	<0.6	5*
	6/5/01	53.41	11.41	0.00	42.00	440	<0.5	<0.5	<0.5	<0.5	30*
	9/6/01	53.41	13.62	0.00	39.79	410	<0.5	<0.5	<0.5	<0.5	56*
	12/11/01	53.41	12.02	0.00	41.39	510	<0.5	<0.5	<0.5	<0.5	42*
	3/12/02	53.41	9.54	0.00	43.87	110	<0.5	<0.5	<0.5	<0.5	26*
	6/11/02	53.41	11.53	0.00	41.88	590	<0.5	<0.5	<0.5	<0.5	18*
	9/9/02	56.55	13.38	0.00	43.17	390	<0.5	<0.5	<0.5	<0.5	18*
	12/20/02	56.55	12.26	0.00	44.29	520	<0.5	<0.5	<0.5	<0.5	17*
	3/12/03	56.55	9.83	0.00	46.72	190	<0.5	<0.5	<0.5	<0.5	14*
	6/6/03	56.55	9.78	0.00	46.77	310	<0.5	<0.5	<0.5	<0.5	9.2*

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GROUNDWATER ELEVATIONS AND
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 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-5	9/17/03	56.55	13.88	0.00	42.67	100	<0.5	<0.5	<0.5	<0.5	7.4*
	12/5/03	56.55	13.71	0.00	42.84	190	<0.5	<0.5	<0.5	<0.5	9.1*
Screen	3/15/04	56.55	9.02	0.00	47.53	83	<0.5	<0.5	<0.5	<0.5	6.4*
5'-20'	6/9/04	56.55	11.13	0.00	45.42	73	<0.5	<0.5	<0.5	<0.5	4.9*
	9/13/04	56.55	13.37	0.00	43.18	<50	<0.5	<0.5	<0.5	<0.5	5.1*
	12/10/04	56.55	12.05	0.00	44.50	62	<0.5	<0.5	<0.5	<0.5	4.0*
	3/24/05	56.55	9.78	0.00	46.77	<50	<0.5	<0.5	<0.5	<0.5	3.9*
	6/1/05	56.55	9.67	0.00	46.88	71	<0.5	<0.5	<0.5	<0.5	2.8*
MW-6	11/21/91	Skimmer activated				---	---	---	---	---	---
	7/13/92	52.05	---	---	---	70%	0.66%	4.4%	1.2%	7.1%	---
Screen	9/2/92	52.05	14.40	0.26	37.86	---	---	---	---	---	---
5'-20'	10/28/92	52.05	14.52	0.26	37.74	---	---	---	---	---	---
	11/9/92	52.05	14.93	0.06	37.17	---	---	---	---	---	---
	1/12/93	52.05	13.65	1.88	39.90	---	---	---	---	---	---
	2/4/93	52.05	14.70	4.46	40.92	---	---	---	---	---	---
	5/5/93	52.05	14.35	6.08	42.56	---	---	---	---	---	---
	5/10/93	52.05	9.80	0.01	42.26	---	---	---	---	---	---
	5/27/93	52.05	14.48	5.71	42.14	---	---	---	---	---	---
	8/30/93	52.05	14.52	2.32	39.39	---	---	---	---	---	---
	9/14/93	52.05	14.60	2.29	39.28	---	---	---	---	---	---
	10/12/93	52.05	13.24	0.06	38.86	---	---	---	---	---	---
	11/29/93	52.05	13.72	0.09	38.40	---	---	---	---	---	---
	12/21/93	52.05	13.56	0.92	39.23	---	---	---	---	---	---
	1/12/94	52.05	13.01	0.67	39.58	---	---	---	---	---	---
	2/22/94	52.05	14.41	4.74	41.43	---	---	---	---	---	---
	3/24/94	52.05	11.19	1.02	41.68	---	---	---	---	---	---
	4/26/94	52.05	10.83	0.10	41.30	---	---	---	---	---	---
	5/18/94	52.05	13.99	4.43	41.60	---	---	---	---	---	---
	6/20/94	52.05	14.15	3.35	40.58	---	---	---	---	---	---
	10/19/94	52.05	15.40	1.91	38.18	---	---	---	---	---	---
	11/23/94	52.05	13.55	0.11	38.59	---	---	---	---	---	---
	12/23/94	52.05	13.43	1.43	39.76	---	---	---	---	---	---
	1/25/95	52.05	12.14	3.07	42.37	---	---	---	---	---	---
	2/23/95	52.05	11.22	2.35	42.71	---	---	---	---	---	---
	3/25/95	52.05	8.99	0.92	43.80	---	---	---	---	---	---
	2/24/97	52.05	8.44	0.70	44.17	220,000	16,000	24,000	3,800	25,100	<5,000
	5/26/97	52.05	---	0.38	---	---	---	---	---	---	---
	9/5/97	52.05	---	0.86	---	---	---	---	---	---	---
	12/11/97	52.05	---	0.75	---	---	---	---	---	---	---
	4/8/98	52.05	7.85	0.68	44.74	---	---	---	---	---	---
	6/22/98	52.05	---	0.14	---	---	---	---	---	---	---
	9/26/98	52.05	---	0.26	---	---	---	---	---	---	---
	1/14/99	52.05	10.75	2.20	43.06	---	---	---	---	---	---
	3/30/99	52.05	6.4	0.20	45.81	---	---	---	---	---	---
	6/28/99	52.05	7.86	0.24	44.43	---	---	---	---	---	---
	10/5/99	52.05	---	1.80	---	---	---	---	---	---	---
	12/10/99	52.05	---	0.75	---	---	---	---	---	---	---
	3/23/00	52.05	---	>2.0	---	---	---	---	---	---	---
	6/7/00	52.05	---	0.90	---	---	---	---	---	---	---
	9/18/00	52.05	---	0.41	---	---	---	---	---	---	---
	11/29/00	52.05	---	0.32	---	---	---	---	---	---	---
	3/22/01	52.05	---	0.15	---	---	---	---	---	---	---
	6/12/01	52.05	---	0.52	---	---	---	---	---	---	---
	9/7/01	52.05	---	0.13	---	---	---	---	---	---	---
	12/11/01	52.05	---	0.17	---	---	---	---	---	---	---
	3/12/02	52.05	---	0.09	---	---	---	---	---	---	---

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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-6	6/11/02	52.05	---	0.11	---	---	---	---	---	---	---
	9/9/02	55.20	---	0.02	---	---	---	---	---	---	---
Screen	12/20/02	55.20	---	0.03	---	---	---	---	---	---	---
5'-20'	3/12/03	55.20	---	0.03	---	---	---	---	---	---	---
	6/6/03	55.20	8.42	0.00	46.78	63,000	490	5,300	1,300	9,300	<20*
	9/17/03	55.20	12.87	0.00	42.33	71,000	1,100	6,200	1,500	10,000	<20*
	12/5/03	55.20	12.25	0.00	42.95	73,000	1,700	10,000	1,900	13,000	55*
	3/15/04	55.20	7.06	0.00	48.14	44,000	700	3,100	790	6,700	<20*
	6/9/04	55.20	9.73	0.00	45.47	75,000	1,900	4,700	1,300	12,000	<0.5*
	9/13/04	55.20	12.04	0.00	43.16	60,000	1,100	2,400	1,200	9,900	<20*
	12/10/04	55.20	8.46	0.00	46.74	33,000	120	960	660	4,300	<25*
	3/24/05	55.20	10.10	0.00	45.10	33,000	260	690	560	3,300	<5*
	6/1/05	55.20	10.08	0.00	45.12	27,000	65	580	460	2,600	<4*
MW-7	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	52.07	12.87	---	39.20	---	---	---	---	---	---
Screen	2/4/93	52.07	10.90	---	41.17	---	---	---	---	---	---
5'-20'	5/5/93	52.07	9.79	---	42.28	---	---	---	---	---	---
	5/10/93	52.07	9.74	---	42.33	<50	<0.5	<0.5	<0.5	<0.5	---
	8/30/93	52.07	12.81	---	39.26	---	---	---	---	---	---
	12/21/93	52.07	12.83	---	39.24	---	---	---	---	---	---
	3/24/94	52.07	10.41	---	41.66	<50	<0.5	<0.5	<0.5	<0.5	---
	4/26/94	52.07	10.76	---	41.31	---	---	---	---	---	---
	9/27/94	52.07	13.82	---	38.25	<50	<0.5	<0.5	<0.5	<0.5	---
	12/23/94	52.07	12.23	---	39.84	---	---	---	---	---	---
	3/25/95	52.07	8.42	---	43.65	---	---	---	---	---	---
	4/15/96	52.07	9.00	---	43.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/97	52.07	8.51	---	43.56	<50	<0.5	<0.5	<0.5	<0.5	7.4
	5/25/97	52.07	10.01	---	42.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	52.07	12.50	---	39.57	<50	<0.5	<0.5	<0.5	<0.5	10
	12/11/97	52.07	11.86	---	40.21	---	---	---	---	---	---
	4/8/98	52.07	7.21	---	44.86	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	52.07	11.62	---	40.45	---	---	---	---	---	---
	9/26/98	52.07	NM	---	---	---	---	---	---	---	---
	1/14/99	52.07	12.12	---	39.95	---	---	---	---	---	---
	3/30/99	52.07	7.00	---	45.07	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	52.07	10.86	---	41.21	---	---	---	---	---	---
	10/5/99	52.07	12.54	---	39.53	---	---	---	---	---	---
	12/10/99	52.07	11.22	---	40.85	---	---	---	---	---	---
	3/24/00	52.07	7.93	---	44.14	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	52.07	9.99	---	42.08	---	---	---	---	---	---
	9/15/00	52.07	12.21	---	39.86	<50	0.5	2.0	0.7	2.9	<2.0*
	11/29/00	52.07	11.62	---	40.45	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	52.07	9.24	---	42.83	<50	<0.3	<0.3	<0.3	<0.6	2.3*
	6/5/01	52.07	10.40	---	41.67	<50	<0.5	<0.5	<0.5	<0.5	1.7*
	9/6/01	52.07	12.61	---	39.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	52.07	10.93	---	41.14	---	---	---	---	---	---
	3/12/02	52.07	8.52	---	43.55	<50	<0.5	<0.5	<0.5	<0.5	3.4*
	6/11/02	52.07	10.38	---	41.69	---	---	---	---	---	---
	9/9/02	55.22	12.18	---	43.04	---	---	---	---	---	---
	12/20/02	55.22	11.09	---	44.13	---	---	---	---	---	---
	3/12/03	55.22	8.67	---	46.55	<50	<0.5	<0.5	<0.5	<0.5	1.5*
	6/6/03	55.22	8.58	---	46.64	---	---	---	---	---	---
	9/17/03	55.22	13.03	---	42.19	---	---	---	---	---	---
	12/5/03	55.22	12.42	---	42.80	---	---	---	---	---	---
	3/15/04	55.22	7.87	---	47.35	<50	<0.5	<0.5	<0.5	<0.5	1.6*
	6/9/04	55.22	9.91	---	45.31	---	---	---	---	---	---

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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-7	9/13/04	55.22	12.15	---	43.07	---	---	---	---	---	---
	12/10/04	55.22	10.91	---	44.31	---	---	---	---	---	---
Screen	3/24/05	55.22	8.62	---	46.60	<50	<0.5	<0.5	<0.5	<0.5	0.57*
5'-20'	6/1/05	55.22	8.56	---	46.66	---	---	---	---	---	---
MW-8	10/28/92	49.46	11.80	---	37.66	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
Screen	1/12/93	49.46	9.35	---	40.11	---	---	---	---	---	---
5'-20'	2/4/93	49.46	8.40	---	41.06	---	---	---	---	---	---
	5/5/93	49.46	7.19	---	42.27	---	---	---	---	---	---
	5/10/93	49.46	7.17	---	42.29	<50	<0.5	<0.5	<0.5	<0.5	---
	8/30/93	49.46	10.10	---	39.36	---	---	---	---	---	---
	12/21/93	49.46	10.19	---	39.27	---	---	---	---	---	---
	3/24/94	49.46	7.76	---	41.70	<50	<0.5	<0.5	<0.5	<0.5	---
	4/26/94	49.46	8.12	---	41.34	---	---	---	---	---	---
	9/27/94	49.46	11.17	---	38.29	---	---	---	---	---	---
	12/23/94	49.46	9.61	---	39.85	---	---	---	---	---	---
	3/25/95	49.46	5.67	---	43.79	---	---	---	---	---	---
	4/15/96	49.46	10.72	---	38.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/97	49.46	9.52	---	39.94	---	---	---	---	---	---
	5/26/97	49.46	11.78	---	37.68	<50	<0.5	<0.5	<0.5	<0.5	34
	9/5/97	49.46	14.30	---	35.16	<50	<0.5	1.0	<0.5	0.83	<5.0
	12/11/97	49.46	---	---	---	---	---	---	---	---	---
	4/8/98	49.46	6.72	---	42.74	140	21	48	5	25	<5.0
	6/22/98	49.46	8.61	---	40.85	---	---	---	---	---	---
	9/26/98	49.46	12.06	---	37.40	---	---	---	---	---	---
	1/14/99	49.46	9.55	---	39.91	---	---	---	---	---	---
	3/30/99	49.46	6.60	---	42.86	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	49.46	10.79	---	38.67	---	---	---	---	---	---
	10/5/99	49.46	12.65	---	36.81	---	---	---	---	---	---
	12/10/99	49.46	10.33	---	39.13	---	---	---	---	---	---
	3/23/00	49.46	7.41	---	42.05	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	49.46	9.78	---	39.68	---	---	---	---	---	---
	9/14/00	49.46	10.98	---	38.48	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	49.46	11.08	---	38.38	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	49.46	9.13	---	40.33	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	49.46	10.15	---	39.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	49.46	12.77	---	36.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
Removed from quarterly sampling schedule											
MW-9	10/28/92	51.84	14.06	---	37.78	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
Screen	1/12/93	51.84	12.23	---	39.61	---	---	---	---	---	---
5'-20'	2/4/93	51.84	10.44	---	41.40	---	---	---	---	---	---
	3/2/93	51.84	9.80	---	42.04	<50	<0.5	1.2	<0.5	0.60	---
	5/5/93	51.84	9.20	---	42.64	---	---	---	---	---	---
	8/30/93	51.84	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	12/16/93	51.84	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	12/21/93	51.84	12.55	---	39.29	---	---	---	---	---	---
	3/24/94	51.84	9.88	---	41.96	---	---	---	---	---	---
	4/26/94	51.84	10.32	---	41.52	---	---	---	---	---	---
	9/27/94	51.84	13.48	---	38.36	<50	<0.5	<1.0	<1.0	<1.0	---
	12/23/94	51.84	12.19	---	39.65	---	---	---	---	---	---
	3/25/95	51.84	8.02	---	43.82	---	---	---	---	---	---
	4/1/96	51.84	8.65	---	43.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Well closed											

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-10	10/28/92	55.18	17.15	---	38.03	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
Screen	1/12/93	55.18	15.63	---	39.55	---	---	---	---	---	---
5'-20'	2/4/93	55.18	13.50	---	41.68	---	---	---	---	---	---
	5/5/93	55.18	12.30	---	42.88	---	---	---	---	---	---
	5/10/93	55.18	12.25	---	42.93	<50	<0.5	<0.5	<0.5	<0.5	---
	8/30/93	55.18	15.46	---	39.72	---	---	---	---	---	---
	12/21/93	55.18	15.46	---	39.72	---	---	---	---	---	---
	3/24/94	55.18	12.91	---	42.27	<50	<0.5	0.84	<0.5	0.85	---
	4/26/94	55.18	13.19	---	41.99	---	---	---	---	---	---
	9/27/94	55.18	10.81	---	44.37	---	---	---	---	---	---
	12/23/94	55.18	14.84	---	40.34	---	---	---	---	---	---
	3/25/95	55.18	10.71	---	44.47	---	---	---	---	---	---
	4/15/96	55.18	11.48	---	43.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/97	55.18	11.01	---	44.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/97	55.18	12.81	---	42.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	55.18	15.19	---	39.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	55.18	14.28	---	40.90	---	---	---	---	---	---
	4/8/98	55.18	9.50	---	45.68	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	55.18	12.76	---	42.42	---	---	---	---	---	---
	9/26/98	55.18	14.62	---	40.56	---	---	---	---	---	---
	1/14/99	55.18	12.36	---	42.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/30/99	55.18	9.56	---	45.62	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	55.18	12.16	---	43.02	---	---	---	---	---	---
	10/5/99	55.18	15.35	---	39.83	---	---	---	---	---	---
	12/10/99	55.18	13.78	---	41.40	---	---	---	---	---	---
	3/24/00	55.18	10.42	---	44.76	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	55.18	12.65	---	42.53	---	---	---	---	---	---
	9/15/00	55.18	14.77	---	40.41	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	55.18	14.21	---	40.97	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	55.18	11.83	---	43.35	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	55.18	13.01	---	42.17	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.18	15.41	---	39.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5*

Removed from quarterly sampling schedule

MW-11	10/28/92	53.14	15.45	---	37.69	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
Screen	1/12/93	53.14	13.18	---	39.96	---	---	---	---	---	---
5'-20'	2/4/93	53.14	11.90	---	41.24	---	---	---	---	---	---
	3/2/93	53.14	3.88	---	49.26	<50	<0.5	0.60	<0.5	0.50	---
	5/5/93	53.14	7.60	---	45.54	---	---	---	---	---	---
	8/30/93	53.14	13.91	---	39.23	---	---	---	---	---	---
	12/16/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	12/21/93	53.14	9.96	---	43.18	---	---	---	---	---	---
	3/24/94	53.14	3.46	---	49.68	---	---	---	---	---	---
	4/26/94	53.14	3.83	---	49.31	---	---	---	---	---	---
	6/20/94	53.14	11.76	---	41.38	<50	<0.5	<0.5	<0.5	<0.5	---
	9/27/94	53.14	14.81	---	38.33	119	<0.5	<1.0	<1.0	<1.0	---
	12/23/94	53.14	12.17	---	40.97	---	---	---	---	---	---
	3/25/95	53.14	3.26	---	49.88	<50	---	---	---	---	---
	4/15/96	53.14	6.38	---	46.76	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	2/24/97	53.14	4.36	---	48.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/97	53.14	10.79	---	42.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.14	13.50	---	39.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.14	6.79	---	46.35	---	---	---	---	---	---
	4/8/98	53.14	4.34	---	48.80	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	53.14	6.79	---	46.35	---	---	---	---	---	---

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ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-11	9/26/98	53.14	---	---	---	---	---	---	---	---	---
	1/14/99	53.14	6.46	---	46.68	---	---	---	---	---	---
Screen	3/30/99	53.14	3.77	---	49.37	<50	<0.5	<0.5	<0.5	<0.5	<3.0
5'-20'	6/28/99	53.14	11	---	42.14	---	---	---	---	---	---
	10/5/99	53.14	13.49	---	39.65	---	---	---	---	---	---
	12/10/99	53.14	3.88	---	49.26	---	---	---	---	---	---
	3/24/00	53.14	4.21	---	48.93	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	53.14	4.79	---	48.35	---	---	---	---	---	---
	9/15/00	53.14	12.76	---	40.38	<50	<0.3	1.8	0.9	4.4	31.8*
	11/29/00	53.14	5.03	---	48.11	<50	<0.3	<0.3	<0.3	<0.6	5.8*
	3/21/01	53.14	4.93	---	48.21	<50	<0.3	<0.3	<0.3	<0.6	9.5*
	6/5/01	53.14	7.55	---	45.59	<50	<0.5	<0.5	<0.5	<0.5	48*
	9/6/01	53.14	13.58	---	39.56	<50	<0.5	<0.5	<0.5	<0.5	0.79*
	12/11/01	53.14	10.86	---	42.28	---	---	---	---	---	---
	3/12/02	53.14	8.57	---	44.57	<50	<0.5	<0.5	<0.5	<0.5	5.6*
	6/11/02	53.14	11.22	---	41.92	---	---	---	---	---	---
	9/9/02	56.24	13.17	---	43.07	---	---	---	---	---	---
	12/20/02	56.24	11.81	---	44.43	---	---	---	---	---	---
	3/12/03	56.24	9.37	---	46.87	<50	<0.5	<0.5	<0.5	<0.5	0.72*
	6/6/03	56.24	9.33	---	46.91	---	---	---	---	---	---
	9/17/03	56.24	13.55	---	42.69	---	---	---	---	---	---
	12/5/03	56.24	13.22	---	43.02	---	---	---	---	---	---
	3/15/04	56.24	8.82	---	47.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/9/04	56.24	10.86	---	45.38	---	---	---	---	---	---
	9/13/04	56.24	13.15	---	43.09	---	---	---	---	---	---
	12/10/04	56.24	11.89	---	44.35	---	---	---	---	---	---
	3/24/05	56.24	9.60	---	46.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/1/05	56.24	9.58	---	46.66	---	---	---	---	---	---
MW-12	12/16/93	---	---	---	670	5.7	19	6.2	48	---	---
	12/21/93	53.73	14.37	---	39.36	---	---	---	---	---	---
Screen	3/24/94	53.73	11.93	---	41.80	3,500	16	88	28	164	---
5'-20'	4/26/94	53.73	12.28	---	41.45	---	---	---	---	---	---
	9/27/94	53.73	16.24	---	37.49	---	---	---	---	---	---
	12/23/94	53.73	14.26	---	39.47	---	---	---	---	---	---
	3/25/95	53.73	10.17	---	43.56	---	---	---	---	---	---
	4/15/96	53.73	10.45	---	43.28	4,700	9	49	120	530	<300
	2/24/97	53.73	10.46	---	43.27	5,900	<5.0	57	180	750	<50
	5/26/97	53.73	11.51	---	42.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.73	13.92	---	39.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.73	12.60	---	41.13	59	<0.5	<0.5	<0.5	1.3	<5.0
	4/9/98	53.73	8.72	---	45.01	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	53.73	10.37	---	43.36	<50	<0.5	<0.5	<0.5	0.62	<5.0
	9/26/98	53.73	13.35	---	40.38	100	<0.5	<0.5	<0.5	2.60	<5.0
	1/14/99	53.73	11.10	---	42.63	160	<0.5	1.1	2.9	14.4	<11
	3/30/99	53.73	8.49	---	45.24	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	53.73	11.71	---	42.02	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	10/5/99	53.73	14.08	---	39.65	4,200	<8.0	27	200	670	<100
	12/10/99	53.73	13.03	---	40.70	4,700	<3.0	17	160	560	<100
	3/24/00	53.73	9.45	---	44.28	390	<2.0	3.7	26	84	6.0
	6/7/00	53.73	10.42	---	43.31	2,680	<0.3	17	125	435	<2.0 *
	9/15/00	53.73	13.66	---	40.07	1,810	<0.3	9.0	103	277	<2.0 *
	11/29/00	53.73	13.21	---	40.52	3,500	<0.3	7.2	156	467	<2.0 *
	3/21/01	53.73	11.73	---	42.00	4,880	<0.3	7.9	227	566	<2.0 *
	6/5/01	53.73	11.94	---	41.79	2,200	<0.5	6.2	96	270	<0.5*
	9/6/01	53.73	14.17	---	39.56	730	<0.5	1.8	40	83	<0.5*
	12/11/01	53.73	13.04	---	40.69	1,900	81	46	52	110	7.7*

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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-12	3/12/02	53.73	9.92	---	43.81	1,800	<0.5	<0.5	31	17	<0.5*
	6/11/02	53.73	11.79	---	41.94	990	<0.5	1.1	52	85	<0.5*
Screen	9/9/02	56.90	13.78	---	43.12	1,600	<0.5	1.3	69	77	<0.5*
5'-20'	12/20/02	56.90	13.15	---	43.75	850	<0.5	<0.5	31	21	<0.5*
	3/12/03	56.90	10.13	---	46.77	2,700	<0.5	0.63	51	38	<0.5*
	6/6/03	56.90	9.99	---	46.91	890	<0.5	<0.5	21	11	<0.5*
	9/17/03	56.90	14.24	---	42.66	1,600	<0.5	<0.5	55	32	<0.5*
	12/5/03	56.90	13.86	---	43.04	500	<0.5	<0.5	21	7.9	<0.5*
	3/15/04	56.90	9.42	---	47.48	830	<0.5	<0.5	17	5	<0.5*
	6/9/04	56.90	10.71	---	46.19	1,600	<0.5	<0.5	37	17	<0.5*
	9/13/04	56.90	13.80	---	43.10	610	<0.5	<0.5	12	4.0	<0.5*
	12/10/04	56.90	12.62	---	44.28	440	<0.5	<0.5	4.9	4.5	<0.5*
	3/24/05	56.90	10.46	---	46.44	1,600	<0.5	0.58	18	25	<0.5*
	6/1/05	56.90	9.98	---	46.92	2,100	<0.5	1.1	26	46	0.86*
MW-13	12/16/93	---	---	---	<50	1.4	2.3	<0.5	1.53	---	---
	12/21/93	52.64	13.38	---	39.26	---	---	---	---	---	---
Screen	3/24/94	52.64	10.73	---	41.91	<50	<0.5	<0.5	<0.5	<0.5	---
5'-20'	4/26/94	52.64	10.11	---	42.53	---	---	---	---	---	---
	9/27/94	52.64	14.32	---	38.32	<50	<0.5	<1.0	<1.0	<1.0	---
	3/25/95	52.64	2.89	---	49.75	---	---	---	---	---	---
	4/15/96	52.64	3.42	---	49.22	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	2/24/97	52.64	3.05	---	49.59	<50	<0.5	<0.5	<0.5	<0.5	34
	5/25/97	52.64	3.75	---	48.89	<50	<0.5	<0.5	<0.5	<0.5	74
	9/5/97	52.64	4.58	---	48.06	<50	<0.5	<0.5	<0.5	<0.5	22
	12/11/97	52.64	3.82	---	48.82	---	---	---	---	---	---
	4/9/98	52.64	---	---	---	---	---	---	---	---	---
	6/22/98	52.64	3.00	---	49.64	130	<0.5	1.4	0.90	5.8	<5.0
	9/26/98	52.64	4.31	---	48.33	---	---	---	---	---	---
	1/14/99	52.64	3.00	---	49.64	---	---	---	---	---	---
	3/30/99	52.64	3.00	---	49.64	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	52.64	10.86	---	41.78	---	---	---	---	---	---
	10/5/99	52.64	3.53	---	49.11	---	---	---	---	---	---
	12/10/99	52.64	2.99	---	49.65	---	---	---	---	---	---
	3/24/00	52.64	3.22	---	49.42	<50	<0.5	1.3	<0.5	2.5	<3.0
	6/7/00	52.64	3.32	---	49.32	---	---	---	---	---	---
	9/15/00	52.64	3.32	---	49.32	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	52.64	3.17	---	49.47	<50	0.4	2.2	0.3	1.8	<2.0*
	3/21/01	52.64	3.37	---	49.27	<50	<0.3	<0.3	0.4	1.9	<2.0*
	6/5/01	52.64	4.51	---	48.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	52.64	4.14	---	48.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	52.64	3.08	---	49.56	---	---	---	---	---	---
	3/12/02	52.64	---	---	No Access	---	---	---	---	---	---
	6/11/02	52.64	3.48	---	49.16	---	---	---	---	---	---
	9/9/02	55.81	3.75	---	52.06	---	---	---	---	---	---
	12/20/02	55.81	2.80	---	53.01	---	---	---	---	---	---
	3/12/03	55.81	3.37	---	52.44	<50	<0.5	<0.5	<0.5	<0.5	0.56*
	6/6/03	55.81	3.38	---	52.43	---	---	---	---	---	---
	9/17/03	55.81	---	---	No Access	---	---	---	---	---	---
	12/5/03	55.81	4.24	---	51.57	---	---	---	---	---	---
	3/15/04	55.81	3.31	---	52.50	<50	<0.5	<0.5	<0.5	<0.5	3.1*
	6/9/04	55.81	3.67	---	52.14	---	---	---	---	---	---
	9/13/04	55.81	3.93	---	51.88	---	---	---	---	---	---
	12/10/04	55.81	3.05	---	52.76	---	---	---	---	---	---
	3/24/05	55.81	3.06	---	52.75	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/1/05	55.81	3.37	---	52.44	---	---	---	---	---	---

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-14	4/15/96	55.17	11.87	---	43.30	3,200	170	<0.5	<0.5	<2.0	---
	2/24/97	55.17	11.56	---	43.61	590	61	<0.5	3.1	<0.5	<5.0
Screen	5/26/97	55.17	12.98	---	42.19	1900	71	<7.0	0.65	1.5	<130
10'-20'	9/5/97	55.17	15.38	---	39.79	180	16	<0.5	<0.5	<0.5	<5.0
	12/11/97	55.17	---	---	---	---	---	---	---	---	---
	4/9/98	55.17	---	---	---	---	---	---	---	---	---
	6/22/98	55.17	---	---	---	---	---	---	---	---	---
	9/26/98	55.17	12.95	---	42.22	---	---	---	---	---	---
	1/14/99	55.17	10.69	---	44.48	---	---	---	---	---	---
	3/30/99	55.17	8.09	---	47.08	79	2.5	<5.0	<0.5	<0.5	5.9
	6/28/99	55.17	11.92	---	43.25	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	10/5/99	55.17	13.68	---	41.49	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	12/10/99	55.17	12.37	---	42.8	<50	1.6	<0.5	<0.5	<1.0	<3.0
	3/23/00	55.17	9.09	---	46.08	<50	1.7	1.2	<0.5	<1.0	<3.0
	6/7/00	55.17	11.16	---	44.01	190	11	<0.3	1.7	3	<2.0*
	9/14/00	55.17	13.29	---	41.88	1,060	106	6.8	15.8	7.3	<2.0*
	11/29/00	55.17	12.64	---	42.53	738	139	12	42	7.7	<2.0*
	3/21/01	55.17	10.27	---	44.90	334	84.4	1.4	22.1	<0.6	<2.0*
	6/5/01	55.17	11.46	---	43.71	<50	4.3	<0.5	1.9	<0.5	<0.5*
	9/6/01	55.17	13.78	---	41.39	570	110	1.6	13	0.95	<0.5*
	12/11/01	55.17	12.04	---	43.13	600	30	2.6	3.1	4.8	<0.5*
	3/12/02	55.17	9.60	---	45.57	990	200	4.5	12	3.5	<0.5*
	6/11/02	55.17	11.56	---	43.61	560	110	2.7	28	1.2	<0.5*
	9/9/02	56.52	13.31	---	43.21	790	75	3.2	22	1.5	<0.5*
	12/20/02	56.52	12.22	---	44.30	1,100	130	7.0	21	8.7	<0.5*
	3/12/03	56.52	9.74	---	46.78	1,300	270	7.0	37	4.0	<0.5*
	6/6/03	56.52	9.71	---	46.81	1,400	100	3.5	45	3.1	<0.5*
	9/17/03	56.52	13.80	---	42.72	2,600	210	38	87	54	<0.5*
	12/5/03	56.52	13.49	---	43.03	2,200	190	23	81	32	<0.5*
	3/15/04	56.52	8.93	---	47.59	1,800	190	8.1	84	8.4	<0.5*
	6/9/04	56.52	11.02	---	45.50	1,900	100	9.6	71	13	<0.5*
	9/13/04	56.52	13.29	---	43.23	1,400	150	6.2	55	1.1	<0.5*
	12/10/04	56.52	12.05	---	44.47	2,300	430	46	68	21	<0.5*
	3/24/05	56.52	9.72	---	46.80	1,800	370	4.9	41	0.64	<0.5*
	6/1/05	56.52	9.66	---	46.86	1,800	220	4.9	67	3.1	<0.5*
MW-15	7/23/98	54.21	12.44	---	41.77	<50	<0.5	<0.5	<0.5	0.72	<5.0
	9/26/98	54.21	13.55	---	40.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Screen	1/14/99	54.21	12.15	---	42.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10'-20'	3/30/99	54.21	8.37	---	45.84	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	54.21	11.96	---	42.25	---	---	---	---	---	---
	10/5/99	54.21	13.61	---	40.60	---	---	---	---	---	---
	12/10/99	54.21	13.88	---	40.33	---	---	---	---	---	---
	3/23/00	54.21	9.43	---	44.78	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	54.21	11.31	---	42.90	---	---	---	---	---	---
	9/14/00	54.21	13.18	---	41.03	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	54.21	12.33	---	41.88	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	54.21	10.29	---	43.92	<70	<0.4	<0.4	<0.4	<0.8	<2.8*
	6/5/01	54.21	11.35	---	42.86	<50	<0.5	<0.5	<0.5	<0.5	0.97*
	9/6/01	54.21	14.01	---	40.20	<50	<0.5	<0.5	<0.5	<0.5	0.57*
	12/11/01	54.21	11.7	---	42.51	---	---	---	---	---	---
	3/12/02	54.21	10.83	---	43.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	54.21	11.57	---	42.64	---	---	---	---	---	---
	9/9/02	57.38	13.29	---	44.09	---	---	---	---	---	---
	12/20/02	57.38	11.81	---	45.57	---	---	---	---	---	---
	3/12/03	57.38	10.07	---	47.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	57.38	9.73	---	47.65	---	---	---	---	---	---

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GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-15	9/17/03	57.38	13.41	---	43.97	---	---	---	---	---	---
	12/5/03	57.38	13.10	---	44.28	---	---	---	---	---	---
	Screen 3/15/04	57.38	8.89	---	48.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	10'-20'	57.38	11.11	---	46.27	---	---	---	---	---	---
	9/13/04	57.38	13.34	---	44.04	---	---	---	---	---	---
	12/10/04	57.38	11.60	---	45.78	---	---	---	---	---	---
	3/24/05	57.38	9.43	---	47.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/1/05	57.38	10.85	---	46.53	---	---	---	---	---	---
MW-16	7/23/98	54.44	11.47	---	42.97	<50	<0.5	<0.5	<0.5	<0.5	14
	9/26/98	54.44	14.06	---	40.38	<50	<0.5	<0.5	<0.5	<0.5	6.3
	Screen 1/14/99	54.44	11.76	---	42.68	<50	<0.5	<0.5	<0.5	<0.5	11
	10'-20'	54.44	9.18	---	45.26	<50	<0.5	<0.5	<0.5	<0.5	7.5
	6/28/99	54.44	12.26	---	42.18	---	---	---	---	---	---
	10/5/99	54.44	14.81	---	39.63	---	---	---	---	---	---
	12/10/99	54.44	13.52	---	40.92	---	---	---	---	---	---
	3/24/00	54.44	10.19	---	44.25	<50	<0.5	<0.5	<0.5	<1.0	23*
	6/7/00	54.44	12.22	---	42.22	---	---	---	---	---	---
	9/15/00	54.44	14.44	---	40.00	<50	<0.3	<0.3	<0.3	<0.6	7.7*
	11/29/00	54.44	13.89	---	40.55	<50	<0.3	<0.3	<0.3	<0.6	2.9*
	3/21/01	54.44	11.55	---	42.89	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	54.44	12.62	---	41.82	<50	<0.5	<0.5	<0.5	<0.5	0.78*
	9/6/01	54.44	14.82	---	39.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	54.44	13.21	---	41.23	---	---	---	---	---	---
	3/12/02	54.44	10.81	---	43.63	<50	<0.5	<0.5	<0.5	<0.5	0.71*
	6/11/02	54.44	12.62	---	41.82	---	---	---	---	---	---
	9/9/02	57.56	14.45	---	43.11	---	---	---	---	---	---
	12/20/02	57.56	13.34	---	44.22	---	---	---	---	---	---
	3/12/03	57.56	10.89	---	46.67	<50	<0.5	<0.5	<0.5	<0.5	0.61*
	6/6/03	57.56	10.82	---	46.74	---	---	---	---	---	---
	9/17/03	57.56	14.96	---	42.60	---	---	---	---	---	---
	12/5/03	57.56	14.63	---	42.93	---	---	---	---	---	---
	3/15/04	57.56	10.09	---	47.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/9/04	57.56	12.15	---	45.41	---	---	---	---	---	---
	9/13/04	57.56	13.34	---	44.22	---	---	---	---	---	---
	12/10/04	57.56	13.17	---	44.39	---	---	---	---	---	---
	3/24/05	57.56	10.89	---	46.67	<50	<0.5	<0.5	<0.5	<0.5	93*
	6/1/05	57.56	10.82	---	46.74	---	---	---	---	---	---
Deep Well DW-1	4/15/96	54.66	11.46	---	43.20	200	42	2.0	<0.5	2.0	---
	2/24/97	54.66	11.15	---	43.51	<50	<0.5	<0.5	<0.5	<0.5	5.7
	5/25/97	54.66	12.54	---	42.12	<50	<0.5	<0.5	<0.5	<0.5	11
	Screen 9/5/97	54.66	14.95	---	39.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	30'-40'	54.66	13.60	---	41.06	<50	<0.5	<0.5	<0.5	<0.5	390
	4/9/98	54.66	9.70	---	44.96	<50	<0.5	<0.5	<0.5	<2.0	9
	6/22/98	54.66	10.36	---	44.30	---	---	---	---	---	---
	9/26/98	54.66	14.28	---	40.38	---	---	---	---	---	---
	1/14/99	54.66	12.10	---	42.56	---	---	---	---	---	---
	3/30/99	54.66	9.49	---	45.17	<50	<0.5	<0.5	<0.5	<0.5	630
	6/28/99	54.66	16.26	---	38.40	---	---	---	---	---	---
	10/5/99	54.66	15.02	---	39.64	---	---	---	---	---	---
	12/10/99	54.66	13.72	---	40.94	---	---	---	---	---	---
	3/23/00	54.66	10.46	---	44.20	110	1.1	<0.5	<0.5	<1.0	390*
	6/7/00	54.66	12.47	---	42.19	---	---	---	---	---	---
	9/14/00	54.66	14.73	---	39.93	<50	<0.3	1.1	1.0	1.9	18.7*
	11/29/00	54.66	14.13	---	40.53	<50	13.3	<6	<6	<12	386*
	3/21/01	54.66	11.74	---	42.92	<50	<0.3	<0.3	<0.3	<0.6	<2.0*

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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
DW-1	6/5/01	54.66	12.93	---	41.73	160	56	<0.5	<0.5	1.7	340*
	9/6/01	54.66	15.12	---	39.54	<50	<0.5	<0.5	<0.5	<0.5	27*
Screen	12/11/01	54.66	13.43	---	41.23	900	240	7.7	4.9	47	310*
30'-40'	3/12/02	54.66	11.05	---	43.61	510	260	<2	<2	<2	210*
	6/11/02	54.66	12.93	---	41.73	420	120	<0.5	1.4	<0.5	170*
	9/9/02	57.81	14.71	---	43.10	<50	<0.5	<0.5	<0.5	<0.5	17*
	12/20/02	57.81	13.61	---	44.20	<50	<0.5	<0.5	<0.5	<0.5	19*
	3/12/03	57.81	11.20	---	46.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	57.81	11.13	---	46.68	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/17/03	57.81	15.27	---	42.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/5/03	57.81	14.97	---	42.84	<50	1.7	<0.5	<0.5	<0.5	3.1*
	3/15/04	57.81	10.40	---	47.41	<50	2.4	<0.5	<0.5	<0.5	33*
	6/9/04	57.81	12.44	---	45.37	<50	<0.5	<0.5	<0.5	<0.5	0.68*
	9/13/04	57.81	14.68	---	43.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/10/04	57.81	13.45	---	44.36	<50	<0.5	<0.5	<0.5	<0.5	0.93*
	3/24/05	57.81	11.16	---	46.65	<50	<0.5	<0.5	<0.5	<0.5	0.89*
	6/1/05	57.81	11.10	---	46.71	<50	<0.5	<0.5	<0.5	<0.5	0.96*
DW-2	4/15/96	55.05	11.83	---	43.22	<50	<0.5	0.9	0.6	3.0	---
	2/24/97	55.05	11.52	---	43.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Screen	5/25/97	55.05	12.92	---	42.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0
30'-40'	9/5/97	55.05	15.31	---	39.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	55.05	---	---	---	---	---	---	---	---	---
	4/9/98	55.05	---	---	---	---	---	---	---	---	---
	6/22/98	55.05	---	---	---	---	---	---	---	---	---
	9/26/98	55.05	12.5	---	42.55	---	---	---	---	---	---
	1/14/99	55.05	10.26	---	44.79	---	---	---	---	---	---
	3/30/99	55.05	7.69	---	47.36	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	55.05	14.20	---	40.85	---	---	---	---	---	---
	10/5/99	55.05	13.24	---	41.81	---	---	---	---	---	---
	12/10/99	55.05	11.91	---	43.14	---	---	---	---	---	---
	3/23/00	55.05	8.72	---	46.33	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	55.05	10.72	---	44.33	---	---	---	---	---	---
	9/14/00	55.05	12.89	---	42.16	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	55.05	12.28	---	42.77	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	55.05	9.91	---	45.14	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	55.05	11.09	---	43.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.05	13.32	---	41.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	55.05	11.59	---	43.46	---	---	---	---	---	---
	3/12/02	55.05	6.21	---	48.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	55.05	11.12	---	43.93	---	---	---	---	---	---
	9/9/02	55.99	12.88	---	43.11	---	---	---	---	---	---
	12/20/02	55.99	11.78	---	44.21	---	---	---	---	---	---
	3/12/03	55.99	9.35	---	46.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	55.99	9.31	---	46.68	---	---	---	---	---	---
	9/17/03	55.99	13.43	---	42.56	---	---	---	---	---	---
	12/5/03	55.99	13.10	---	42.89	---	---	---	---	---	---
	3/15/04	55.99	8.57	---	47.42	<50	<0.5	<0.5	<0.5	<0.5	0.56*
	6/9/04	55.99	10.61	---	45.38	---	---	---	---	---	---
	9/13/04	55.99	12.86	---	43.13	---	---	---	---	---	---
	12/10/04	55.99	11.61	---	44.38	---	---	---	---	---	---
	3/24/05	55.99	9.32	---	46.67	<50	<0.5	<0.5	<0.5	<0.5	1.0*
	6/1/05	55.99	9.25	---	46.74	---	<0.5	---	---	---	---
DW-3	4/15/96	53.30	10.15	---	43.15	3,200	170	<0.5	<0.5	<2.0	---
	2/24/97	53.30	9.82	---	43.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/26/97	53.30	11.20	---	42.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0

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Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
DW-3	9/5/97	53.30	14.61	---	38.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.30	12.27	---	41.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Screen	4/8/98	53.30	8.38	---	44.92	<50	<0.5	<0.5	<0.5	<2.0	<5.0
30'-40'	6/22/98	53.30	9.42	---	43.88	---	---	---	---	---	---
	9/26/98	53.30	13.10	---	40.20	---	---	---	---	---	---
	1/14/99	53.30	11.86	---	41.44	---	---	---	---	---	---
	3/30/99	53.30	8.18	---	45.12	<50	<0.5	<0.5	<0.5	<0.5	3.3
	6/28/99	53.30	14.16	---	39.14	---	---	---	---	---	---
	10/5/99	53.30	13.73	---	39.57	---	---	---	---	---	---
	12/10/99	53.30	12.43	---	40.87	---	---	---	---	---	---
	3/24/00	53.30	9.14	---	44.16	100	<0.5	<0.5	<0.5	<1.0	390*
	6/7/00	53.30	11.16	---	42.14	---	---	---	---	---	---
	9/15/00	53.30	13.79	---	39.51	<50	0.8	4.1	1.7	6.6	12.7*
	11/29/00	53.30	12.82	---	40.48	140	<0.3	<0.3	<0.3	<0.6	358*
	3/21/01	53.30	10.45	---	42.85	243	2.0	<0.3	<0.3	<0.6	435*
	6/5/01	53.30	11.60	---	41.70	180	63	<0.5	<0.5	<0.5	310*
	9/6/01	53.30	13.79	---	39.51	<50	<0.5	<0.5	<0.5	<0.5	290*
	12/11/01	53.30	12.12	---	41.18	<50	<0.5	<0.5	<0.5	<0.5	290*
	3/12/02	53.30	9.72	---	43.58	<50	<0.5	<0.5	<0.5	<0.5	220*
	6/11/02	53.30	11.57	---	41.73	<50	<0.5	<0.5	<0.5	<0.5	180*
	9/9/02	56.45	13.39	---	43.06	<50	<0.5	<0.5	<0.5	<0.5	170*
	12/20/02	56.45	12.31	---	44.14	<50	<0.5	<0.5	<0.5	<0.5	140*
	3/12/03	56.45	9.88	---	46.57	<50	<0.5	<0.5	<0.5	0.74	94*
	6/6/03	56.45	9.79	---	46.66	<50	<0.5	<0.5	<0.5	<0.5	38*
	9/17/03	56.45	13.96	---	42.49	<50	<0.5	<0.5	<0.5	<0.5	27*
	12/5/03	56.45	13.64	---	42.81	<50	<0.5	<0.5	<0.5	<0.5	16*
	3/15/04	56.45	9.08	---	47.37	<50	<0.5	<0.5	<0.5	<0.5	4.9*
	6/9/04	56.45	11.12	---	45.33	<50	<0.5	<0.5	<0.5	<0.5	5.9*
	9/13/04	56.45	13.37	---	43.08	<50	<0.5	<0.5	<0.5	<0.5	4.5*
	12/10/04	56.45	12.13	---	44.32	<50	<0.5	<0.5	<0.5	<0.5	4.5*
	3/24/05	56.45	9.83	---	46.62	<50	<0.5	<0.5	<0.5	<0.5	1.7*
	6/1/05	56.45	9.77	---	46.68	<50	<0.5	<0.5	<0.5	<0.5	1.1*
Recovery Wells											
RW-1	11/29/00	54.93	13.66	---	41.27	387,000	6,030	62,500	6,450	57,100	123*
	3/21/01	54.93	11.23	---	43.70	83,900	2,100	8,970	3,610	14,100	79*
Screen	6/5/01	54.93	12.47	---	42.46	75,000	1,700	6,000	2,800	12,000	410*
5'-20'	Removed in August 2001, during remedial excavation activities										
RW-2	11/29/00	54.69	8.42	---	46.27	6,100	375	408	138	497	<100*
	3/21/01	54.69	7.45	---	47.24	4,920	147	14	59	90	<40*
Screen	6/5/01	54.69	10.59	---	44.10	12,000	320	19	80	120	21*
5'-20'	Removed in August 2001, during remedial excavation activities										
RW-3	11/29/00	54.52	8.23	---	46.29	4,710	129	21	<1.5	146	46.4*
	3/21/01	54.52	7.27	---	47.25	4,340	168	37	99.1	261	16.5*
Screen	6/5/01	54.52	8.91	---	45.61	9,300	230	15	52	58	19*
5'-20'	Removed in August 2001, during remedial excavation activities										
RW-4B	11/29/00	51.74	3.09	---	48.65	<50	0.3	1.3	0.4	2.9	<2.0*
	3/21/01	51.74	3.32	---	48.42	<50	0.6	<0.3	0.4	0.6	<2.0*
Screen	6/5/01	51.74	3.51	---	48.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
5'-20'	9/6/01	51.74	4.21	---	47.53	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	51.74	2.86	---	48.88	---	---	---	---	---	---
	3/12/02	51.74	3.56	---	48.18	<50	<0.5	<0.5	<0.5	1.1	<0.5*
	6/11/02	51.74	3.49	---	48.25	---	---	---	---	---	---

Table 1
GROUNDWATER ELEVATIONS AND
ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	*LNAPL (feet)	GWE (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
RW-4B	9/9/02	55.90	3.82	---	52.08	---	---	---	---	---	---
	12/20/02	55.90	2.39	---	53.51	---	---	---	---	---	---
Screen	3/12/03	55.90	3.33	---	52.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
5'-20'	6/6/03	55.90	3.35	---	52.55	---	---	---	---	---	---
	9/17/03	55.90	4.75	---	51.15	---	---	---	---	---	---
	12/5/03	55.90	4.11	---	51.79	---	---	---	---	---	---
	3/15/04	55.90	3.23	---	52.67	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/9/04	55.90	3.73	---	52.17	---	---	---	---	---	---
	9/13/04	55.90	3.98	---	51.92	---	---	---	---	---	---
	12/10/04	55.90	2.83	---	53.07	---	---	---	---	---	---
	3/24/05	Covered over by structure									
RW-5	11/29/00	55.16	10.32	---	44.84	<2,500	229	46	36.1	15.3	254*
	3/21/01	55.16	6.94	---	48.22	1,330	54.3	10.4	25.7	116	26.9*
Screen	6/5/01	55.16	11.27	---	43.89	4,000	150	3.6	52	86	21*
5'-20'	9/6/01	55.16	15.59	---	39.57	3,400	240	15	43	33	28*
	12/11/01	55.16	10.33	---	44.83	8,100	280	26	120	320	39*
	3/12/02	55.16	8.30	---	46.86	2,100	180	1.9	32	5	19*
	6/11/02	55.16	13.08	---	42.08	1,900	440	2.3	48	7.9	34*
	9/9/02	58.30	15.58	---	42.72	3,100	410	7.8	39	26	20*
	12/20/02	58.30	5.88	---	52.42	4,900	200	8.5	73	350	26*
	3/12/03	58.30	10.71	---	47.59	1,200	120	0.61	16	<0.5	40*
	6/6/03	58.30	11.04	---	47.26	1,300	130	0.65	20	3.2	13*
	9/17/03	58.30	15.36	---	42.94	2,100	230	1.2	19	6.5	540*
	12/5/03	58.30	14.57	---	43.73	2,500	290	4.6	54	120	210*
	3/15/04	58.30	9.93	---	48.37	990	52	<0.5	13	<0.5	20*
	6/9/04	58.30	12.70	---	45.60	1,500	100	<0.5	9.5	1.4	37*
	9/13/04	58.30	15.08	---	43.22	910	55	0.73	5.7	2.1	31*
	12/10/04	58.30	5.98	---	52.32	4,400	110	2.3	43	300	11*
	3/24/05	58.30	6.36	---	51.94	3,900	120	2.1	41	190	13*
	6/1/05	58.30	12.33	---	45.97	1,600	71	0.57	16	4.8	11*
				MCL	---	1	150	300	1,750	13	
				Taste & odor threshold	5	---	42	29	17	5	

Notes:

TOC: Top of casing referenced to mean sea level in October 2002.

DTW: Depth to water measured from top of well casing in feet.

*LNAPL: Light Non-Aqueous Phase Liquid petroleum. Where listed in parentheses, it indicates the depth to LNAPL.

When LNAPL present, groundwater elevation calculated as: GWE = TOC - [DTW - 0.8(LNAPL)].

GWE: Ground water elevation as referenced to benchmark above mean sea level in feet.

TPHg: Total petroleum hydrocarbons as gasoline (EPA Method 5030/8015M)

Benzene, Toluene, Ethylbenzene, Xylenes: BTEX (EPA Method 8020, or 8260B)

MTBE: Methyl tertiary butyl ether (EPA Method 8020 or * by EPA Method 8260B)

<; Not detected at or above method detection limit as shown.

µg/L: micrograms per liter (~parts per billion)

---: Not analyzed, available, or applicable.

MCL: primary maximum contaminant level, an enforceable California drinking water standard.

Table 2
GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Sample and Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
Influent (EX-1)						
8/5/02	3,800	120	37	110	110	16
10/10/02	7,000	1,200	320	260	480	170
11/12/02	13,000	970	760	500	1700	140
12/3/02	15,000	1,300	1,200	390	1,200	150
1/10/03	12,000	1,500	1,100	390	1,300	200
2/10/03	8,400	990	860	270	830	120
3/3/03	9,700	1,200	1,300	310	1,100	110
4/7/03	16,000	1,700	1,400	610	2,100	120
5/1/03	21,000	2,200	2,300	610	2,800	150
5/30/03	11,000	1,400	550	420	1,400	100
7/2/03	13,000	1,000	240	370	1,200	74
8/1/03	14,000	1,100	350	420	2,000	59
9/2/03	7,000	510	65	210	550	60
10/2/03	9,000	1,200	120	360	1,000	77
11/5/03	4,400	800	30	120	210	99
12/2/03	5,000	440	35	160	340	42
1/6/04	470	25	3	10	19	14
3/17/04	1,800	580	14	34	39	35
4/2/04	8,200	1,700	190	280	373	110
5/3/04	5,400	690	96	120	120	84
6/9/04	10,000	1,900	420	450	910	100
7/7/04	6,800	1,100	88	280	450	71
8/2/04	4,000	590	47	130	180	61
9/2/04	2,800	570	33	100	130	69
10/4/04	5,000	830	37	150	250	70
11/2/04	1,600	280	14	51	53	47
12/1/04	1,500	360	13	35	27	58
1/3/05	1,900	520	49	54	35	40
2/1/05	3,500	520	230	130	240	37
3/2/05	980	53	63	30	110	10
4/4/05	2,100	69	99	64	230	4.4
5/3/05	2,200	120	140	94	280	6.5
6/1/05	1,800	82	64	68	160	5.6

Table 2
GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Sample and Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
Influent (EX-2)						
8/5/02	130,000	6,600	30,000	2,800	17,000	<1,000
4/7/03	91,000	720	9,200	2,400	17,000	<50
5/1/03	91,000	1,400	13,000	2,800	18,000	<50
5/30/03	110,000	1,400	12,000	2,600	17,000	<50
7/2/03	88,000	2,000	10,000	2,500	15,000	<500
9/17/03	120,000	2,000	11,000	2,400	18,000	<50
4/2/04	64,000	570	5,000	2,000	15,500	<50
5/3/04	73,000	870	6,500	2,300	17,100	<50
6/9/04	69,000	610	4,600	1,600	11,000	<20
7/7/04	70,000	3,300	6,600	1,400	8,800	<15
8/2/04	53,000	3,300	5,400	1,400	7,300	<25
9/2/04	75,000	5,100	8,400	2,300	11,000	<20
10/4/04	76,000	5,100	11,000	2,200	13,000	<25
11/2/04	81,000	4,600	11,000	2,400	14,000	<25
12/1/04	62,000	5,000	7,300	1,500	7,600	<15
1/3/05	70,000	6,000	16,000	2,100	14,000	<25
2/1/05	73,000	5,500	11,000	2,000	9,500	<25
3/2/05	66,000	4,600	11,000	1,700	8,800	<25
4/4/05	53,000	2,100	5,000	1,300	6,700	<15
5/3/05	44,000	1,800	5,700	1,000	5,300	<15
6/1/05	38,000	1,600	4,500	1,100	5,000	<7

Table 2
GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Sample and Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
Effluent (Eff Main)						
8/5/02	1,100	<0.5	<0.5	<0.5	<0.5	<5.0
10/10/02	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/12/02	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/3/02	180	<0.5	<0.5	<0.5	<0.5	<5.0
1/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
2/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
4/7/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
5/1/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
5/30/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
7/2/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
8/1/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
9/2/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/2/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/5/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/2/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
1/6/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3/17/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
4/2/04	<50	<0.5	<0.5	<0.5	<1	<0.5
5/3/04	<50	<0.5	<0.5	<0.5	0.9	<0.5
6/9/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
7/7/04	<50	<0.5	<0.5	<0.5	<0.5	<5
8/2/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
9/2/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/4/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/2/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/1/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
1/10/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
2/1/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3/2/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
4/4/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
5/3/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
6/1/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

TPHg Total Petroleum Hydrocarbons as gasoline by EPA method 5030/8260B
 BTEX Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA Method 8260B
 MTBE Methyl tert-butyl ether by EPA Method 8260B
 µg/L Micrograms per liter

Table 3
CUMULATIVE HYDROCARBON RECOVERY FROM GROUNDWATER
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project # FNC-3

Date	A Cummulative Discharge (gal)	B Discharge for Interval (gal)	C Conversion factor (3.785 L/gal)	D Avg TPH (µg/L)	E Conversion factor (1 lbs / 453,600,000 µg)	F TPH recovered (lbs)	G TPH recovered (lbs, to sig figure)
9/9/02	24,330	24,330	3.875	3,800	0.00000002205	0.79	0.79
12/31/02	159,500	135,170	3.875	12,000	0.00000002205	13.86	14
1/10/03	235,450	75,950	3.875	12,000	0.00000002205	7.79	7.8
2/10/03	289,850	54,400	3.875	8,400	0.00000002205	3.90	3.9
3/3/03	311,280	21,430	3.875	9,700	0.00000002205	1.78	1.8
4/7/03	349,560	38,280	3.875	31,000	0.00000002205	10.14	10
5/1/03	400,120	50,560	3.875	35,000	0.00000002205	15.12	15
5/30/03	452,620	52,500	3.875	31,000	0.00000002205	13.91	14
7/2/03	500,260	47,640	3.875	28,000	0.00000002205	11.40	11
8/1/03	533,000	32,740	3.875	14,000	0.00000002205	3.92	3.9
9/2/03	563,490	30,490	3.875	7,000	0.00000002205	1.82	2
10/2/03	580,650	17,160	3.875	9,000	0.00000002205	1.32	1
11/5/03	598,360	17,710	3.875	4,400	0.00000002205	0.67	0.67
12/2/03	601,920	3,560	3.875	5,000	0.00000002205	0.15	0.2
1/6/04	605,895	3,975	3.875	470	0.00000002205	0.02	0.020
3/17/04	635,710	29,815	3.875	1,800	0.00000002205	0.46	0.46
4/2/04	682,900	47,190	3.875	19,000	0.00000002205	7.66	8.9
5/3/04	747,310	64,410	3.875	19,000	0.00000002205	10.46	12
6/9/04	858,890	111,580	3.875	22,000	0.00000002205	20.97	24
7/7/04	870,110	11,220	3.875	19,000	0.00000002205	1.82	1.8
8/2/04	887,640	17,530	3.875	14,000	0.00000002205	2.10	2.1
9/2/04	905,200	17,560	3.875	17,000	0.00000002205	2.55	2.6
10/4/04	910,310	5,110	3.875	19,000	0.00000002205	0.83	0.8
11/2/04	927,340	17,030	3.875	23,000	0.00000002205	3.35	3.3
12/1/04	976,980	49,640	3.875	18,000	0.00000002205	7.63	7.6
1/3/05	1,043,390	66,410	3.875	15,520	0.00000002205	8.81	8.8
2/1/05	1,066,540	23,150	3.875	17,400	0.00000002205	3.44	3.4
3/2/05	1,243,580	177,040	3.875	14,000	0.00000002205	21.18	21
4/4/05	1,575,210	331,630	3.875	12,280	0.00000002205	34.80	35
5/3/05	1,834,620	259,410	3.875	10,560	0.00000002205	23.41	23
6/1/05	2,069,870	235,250	3.875	9,040	0.00000002205	18.17	18

Total Mass of Hydrocarbons Recovered (in lbs)	258.84
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Total Volume of Hydrocarbons Recovered (in gals) (assuming gasoline density of 6.08 lbs/gal)	42.6
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NOTES REGARDING TABLE

Initial startup of system - August 5, 2002.

- A: Cumulative volume of groundwater recovered and discharged (gal), combined flow from EX-1 and EX-2
- B: Volume of groundwater recovered and discharged for period (gal) (combined flow from EX-1 and EX-2)
- C: Conversion factor of 3.875 liter / 1 gal
- D: Weighted Avg TPH concentration ($\mu\text{g}/\text{L}$) of combined groundwater flow from EX-1 and EX-2
Previous measurements show that ratio of water production for EX-1 : EX-2 is ~ 2:1.
TPH concentrations from EX-2 are historically significantly higher than EX-1.
For the sake of being conservative so as not to over estimate TPH recovery, the Avg TPH concentration is calculated as a weighted average of 4 : 1 of EX-1 : EX-2 TPH concentrations.
- E: Conversion factor of 1 lbs / 453,600,00 micrograms
- F: TPH recovered for period (lbs) = B (gal) * C (L/gal) * D ($\mu\text{g}/\text{L}$) * E (lbs/ μg)
- G: TPH recovered for period (lbs) rounded to significant figures

Table 4
WELL CONSTRUCTION DETAILS
 Fortuna Beacon Petro Mart
 309 South Fortuna Boulevard
 Fortuna, California
 Blue Rock Project No. FNC-3

Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)	First Encountered Groundwater (feet bgs)
MW-1	2/27/90	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	6
MW-2	2/27/90	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	6
MW-3	2/27/90	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	12
MW-4	6/30/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	16.5
MW-5	6/30/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	13.2
MW-6	7/1/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	15.5
MW-7	10/22/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	14
MW-8	10/21/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	13
MW-9*	10/21/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	18
MW-10	10/16/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	17
MW-11	10/19/02	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	18
MW-12	12/3/93	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	10
MW-13	12/6/93	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	5
MW-14	4/2/96	Clearwater	2	20	0-10	10-20	0.02	9-20	7-9	0-7	15
MW-15	7/21/98	Clearwater	2	20	0-10	10-20	0.02	9-20	7-9	0-7	15
MW-16	7/21/98	Clearwater	2	20	0-10	10-20	0.02	9-20	7-9	0-7	4.5
DW-1	4/3/96	Clearwater	2	40	0-30	30-40	0.02	27-40	25-27	0-27	18
DW-2	4/4/96	Clearwater	2	40.5	0-30	30-40.5	0.02	27-40.5	25-27	0-27	20
DW-3	4/4/96	Clearwater	2	40.5	0-30	30-40.5	0.02	27-40.5	25-27	0-27	15
RW-1*	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	10
RW-2*	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	5.5
RW-3*	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	5.5
RW-4B	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	3
RW-5	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	8

* : Destroyed by overdrilling and grouted with neat cement or removed during remedial soil excavation

First-Order Decay Rates for Dissolved-Phase Hydrocarbons 6/02 to 6/05

Fortuna Beacon Petro Mart, 390 South Fortuna Boulevard, Fortuna, CA

Blue Rock Project No. FNC-3

Well	TPHg (day ⁻¹)	Benzene (day ⁻¹)	MTBE (day ⁻¹)
MW-1	0.0006*	0.0028	-0.0007
MW-4	-0.0002*	-0.0011	-0.0018
MW-5	-0.0023	N/A	-0.0017
MW-6	-0.0006	-0.0014	NA
DW-1	-0.0008*	-0.0019*	-0.0032*
DW-3	N/A	N/A	-0.0050
RW-5	NA	-0.0014	-0.0009*

See attached decay rate graph

* not statistically significant, statistically significant defined as $R^2 > 0.75$

Chart 1
Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-1
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, CA

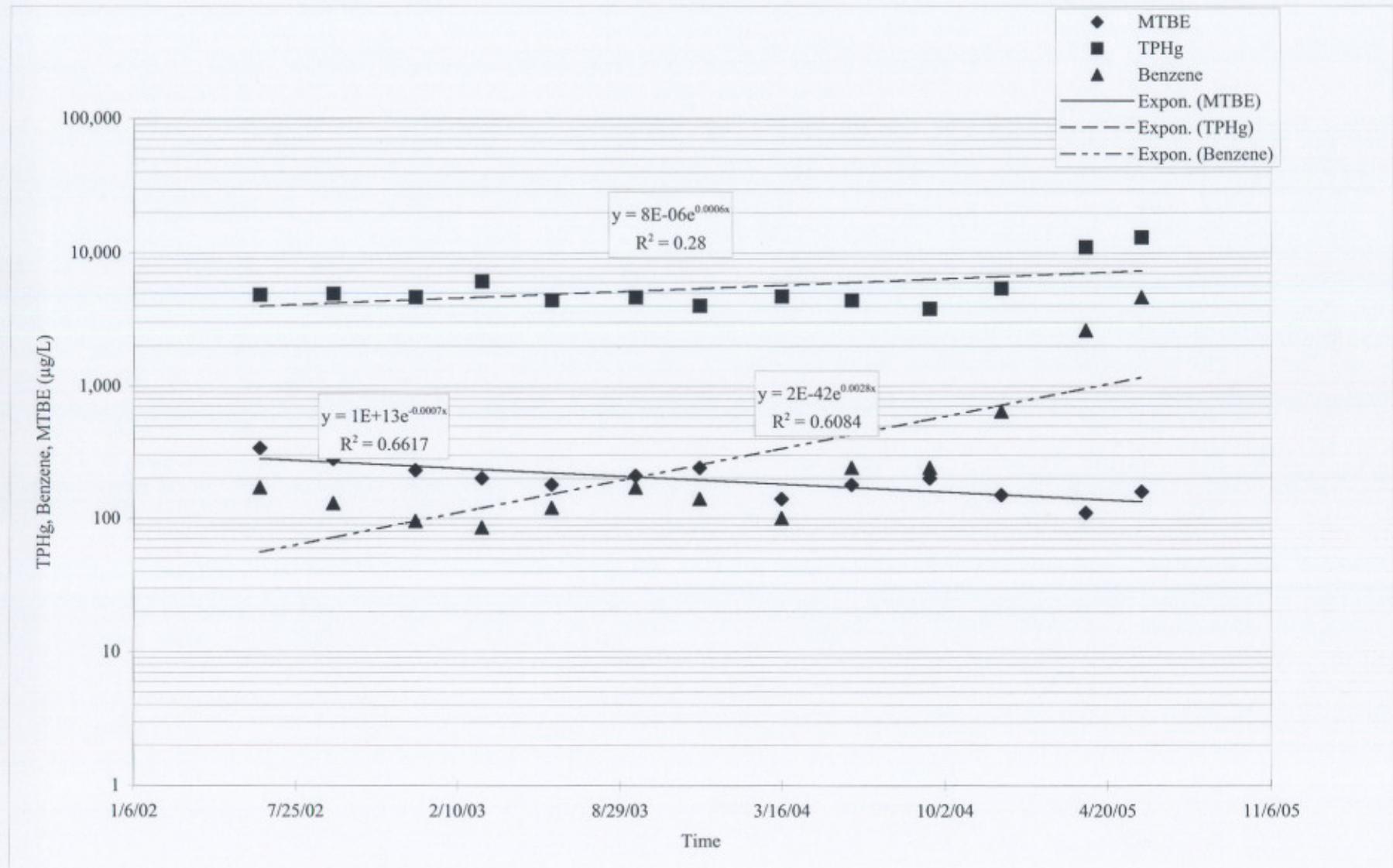


Chart 2
Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-4
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, CA

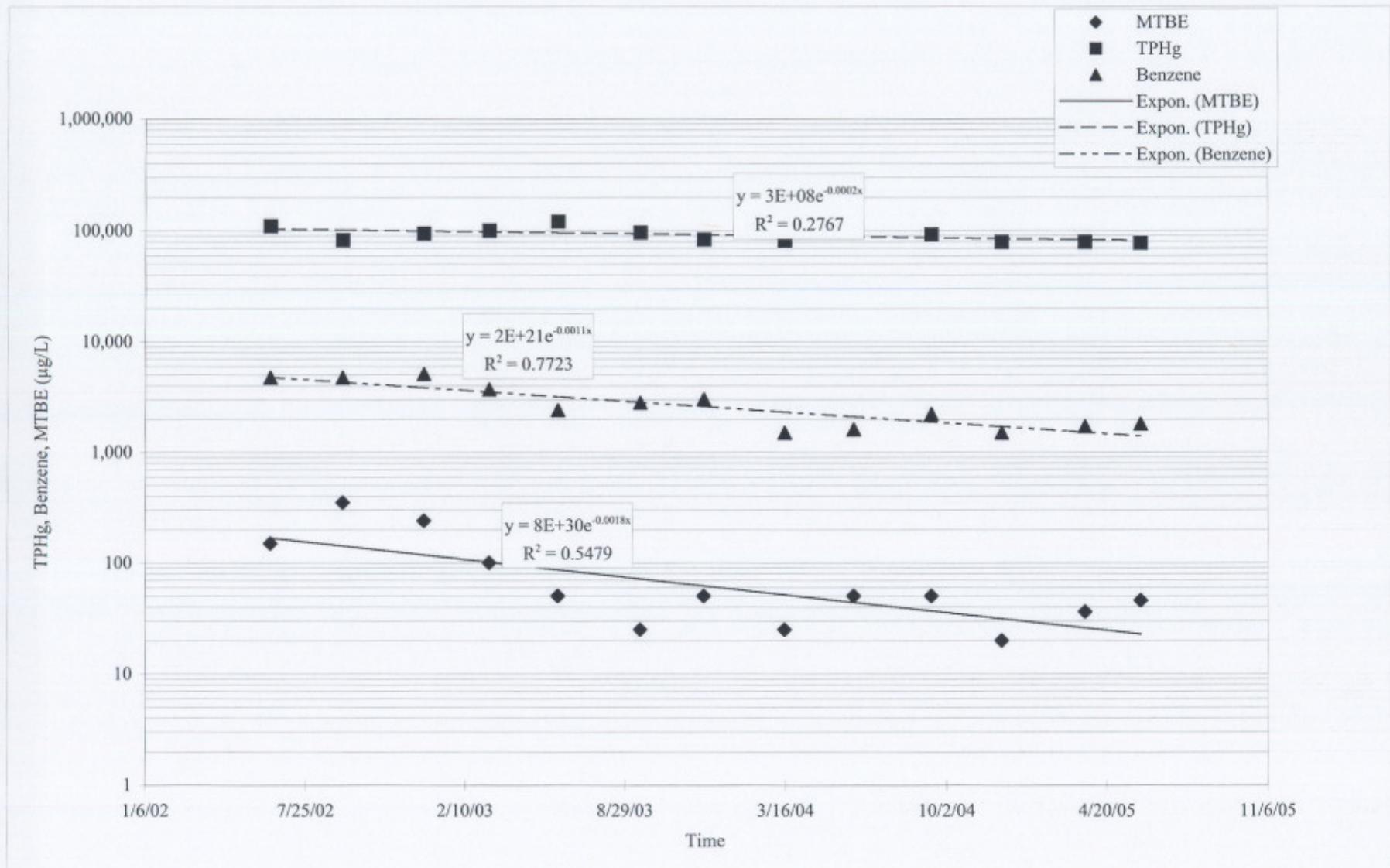


Chart 3
Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-5
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

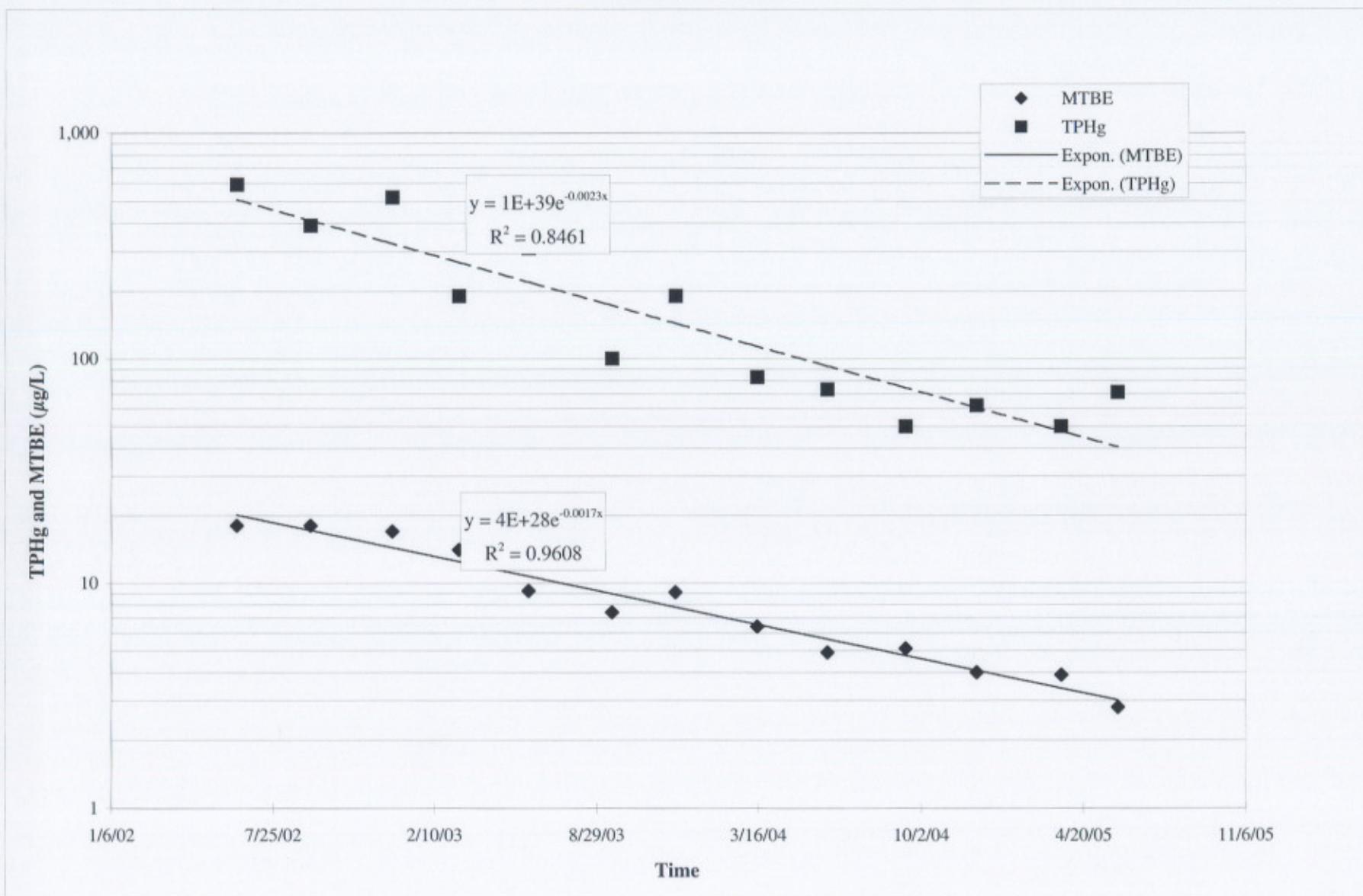


Chart 4
Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-6
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

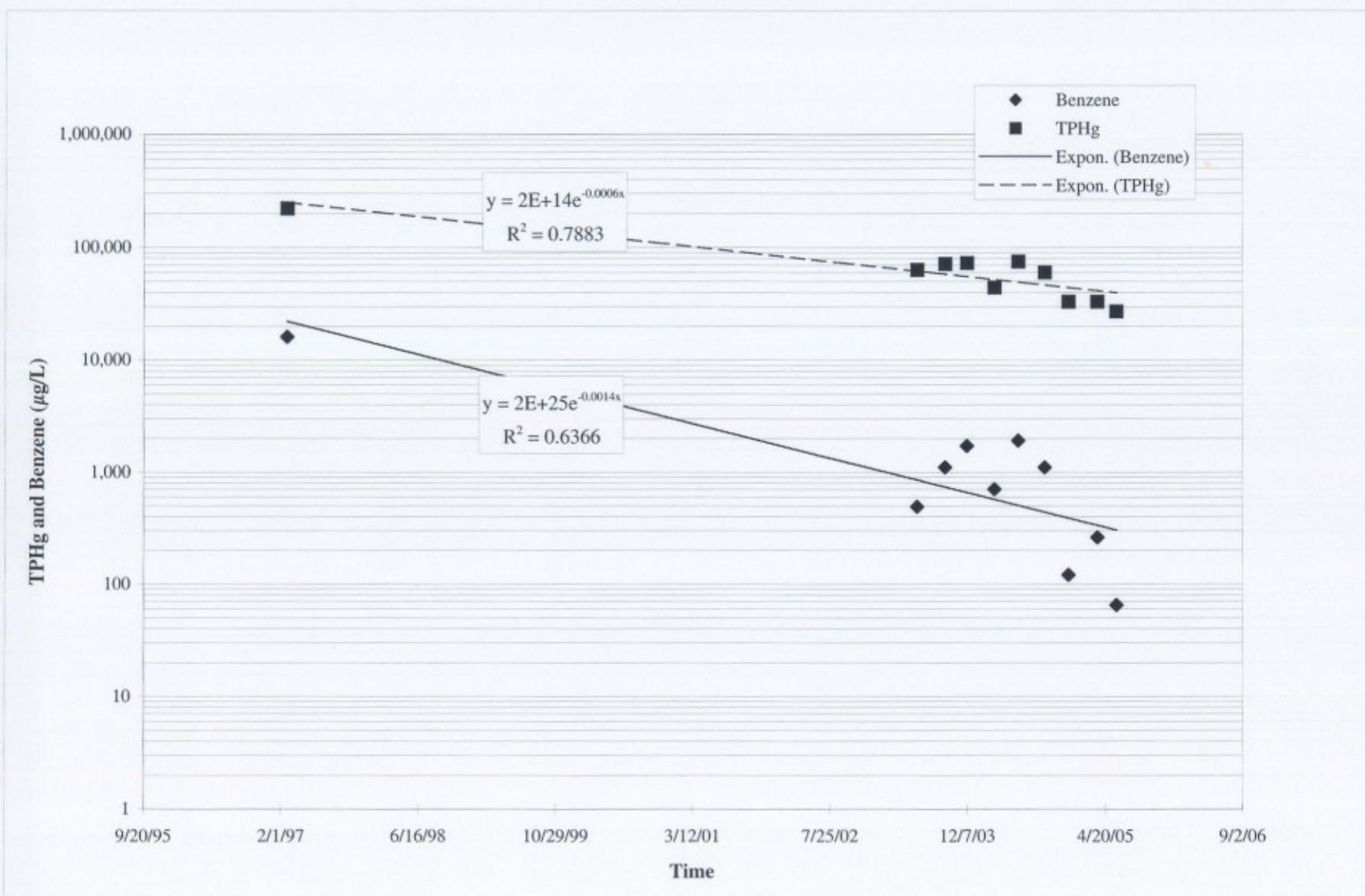


Chart 5
Dissolved-Phase Hydrocarbon Concentrations vs. Time for DW-1
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, CA

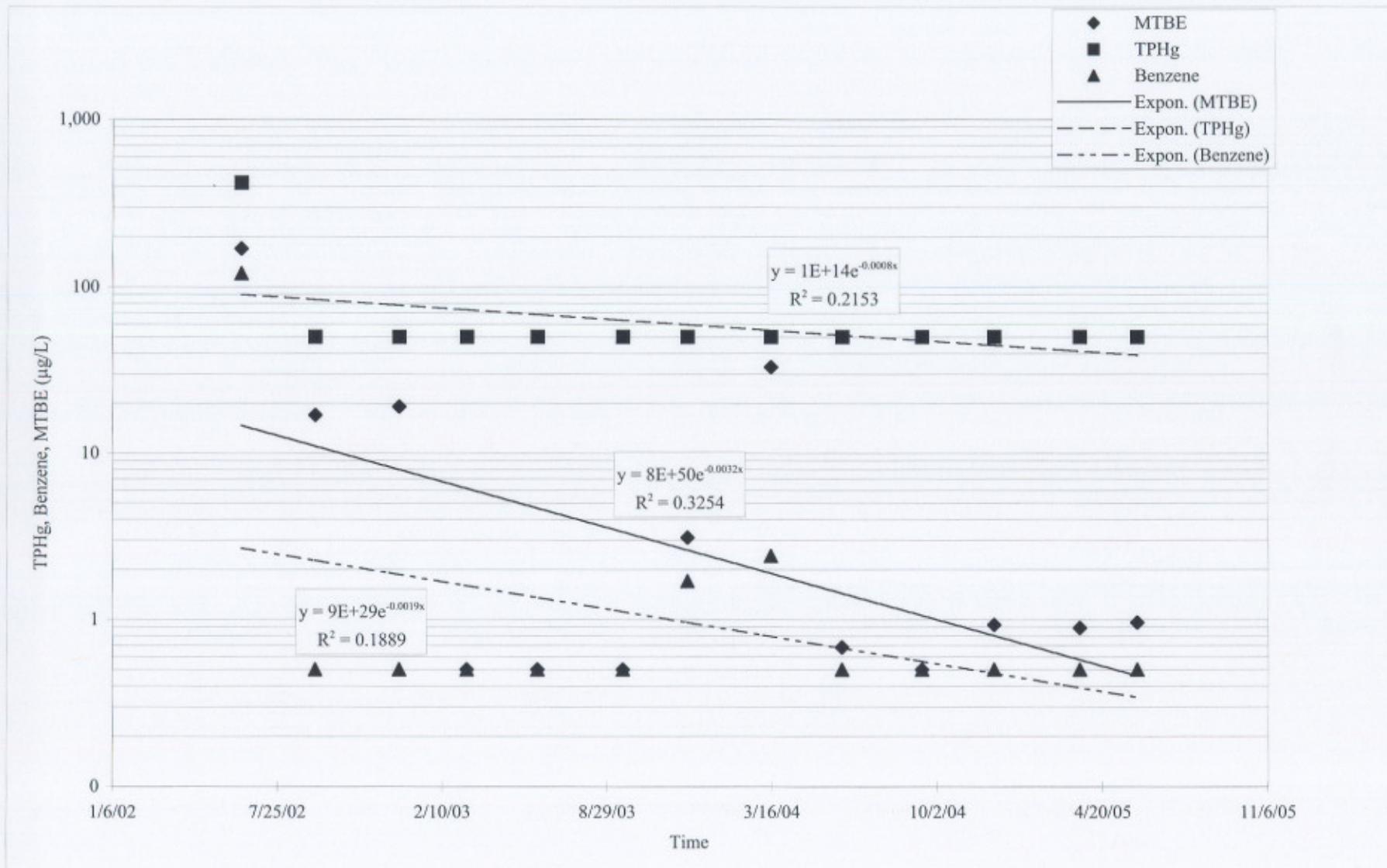


Chart 6
Dissolved-Phase Hydrocarbon Concentrations vs. Time for DW-3
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, CA

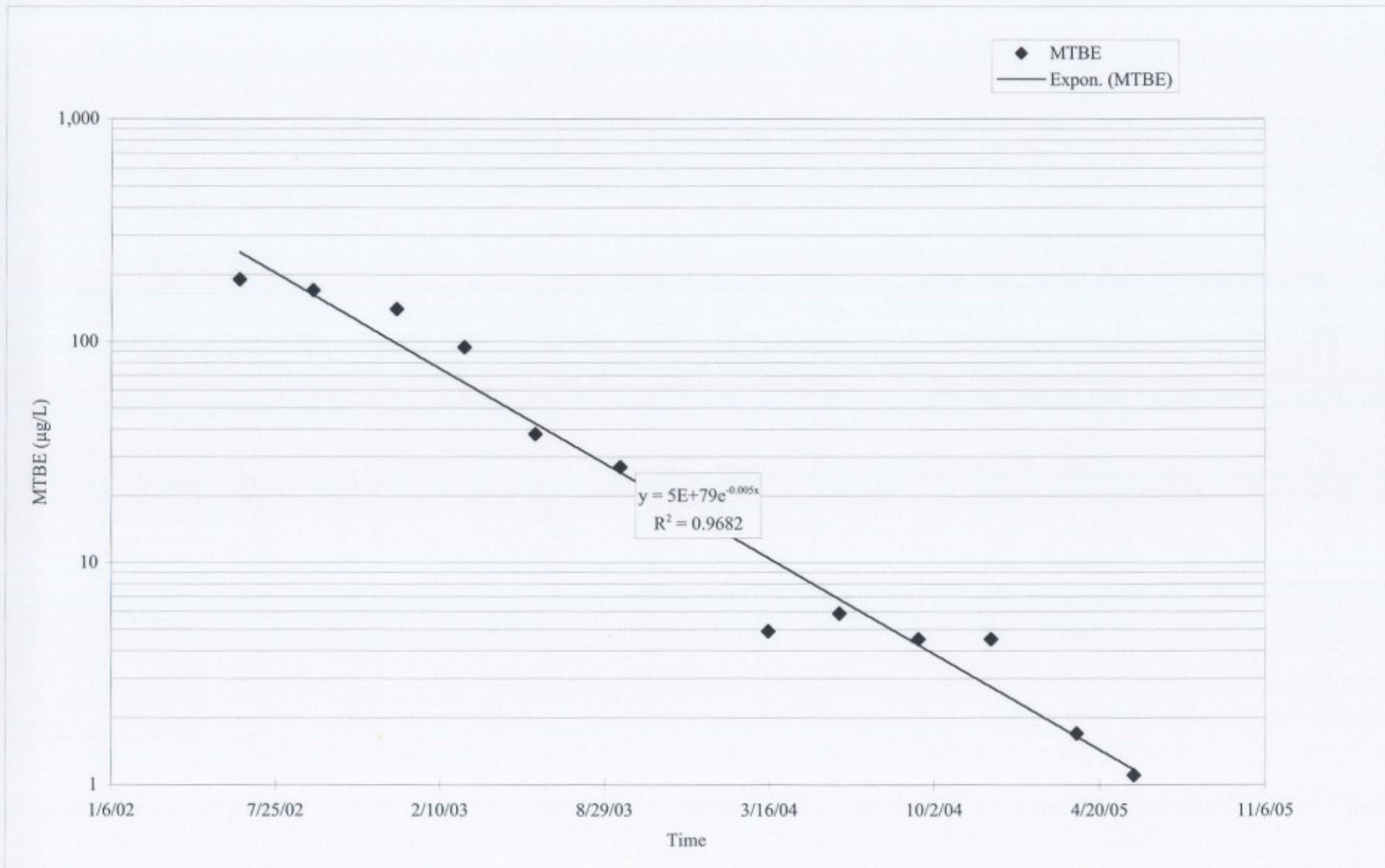
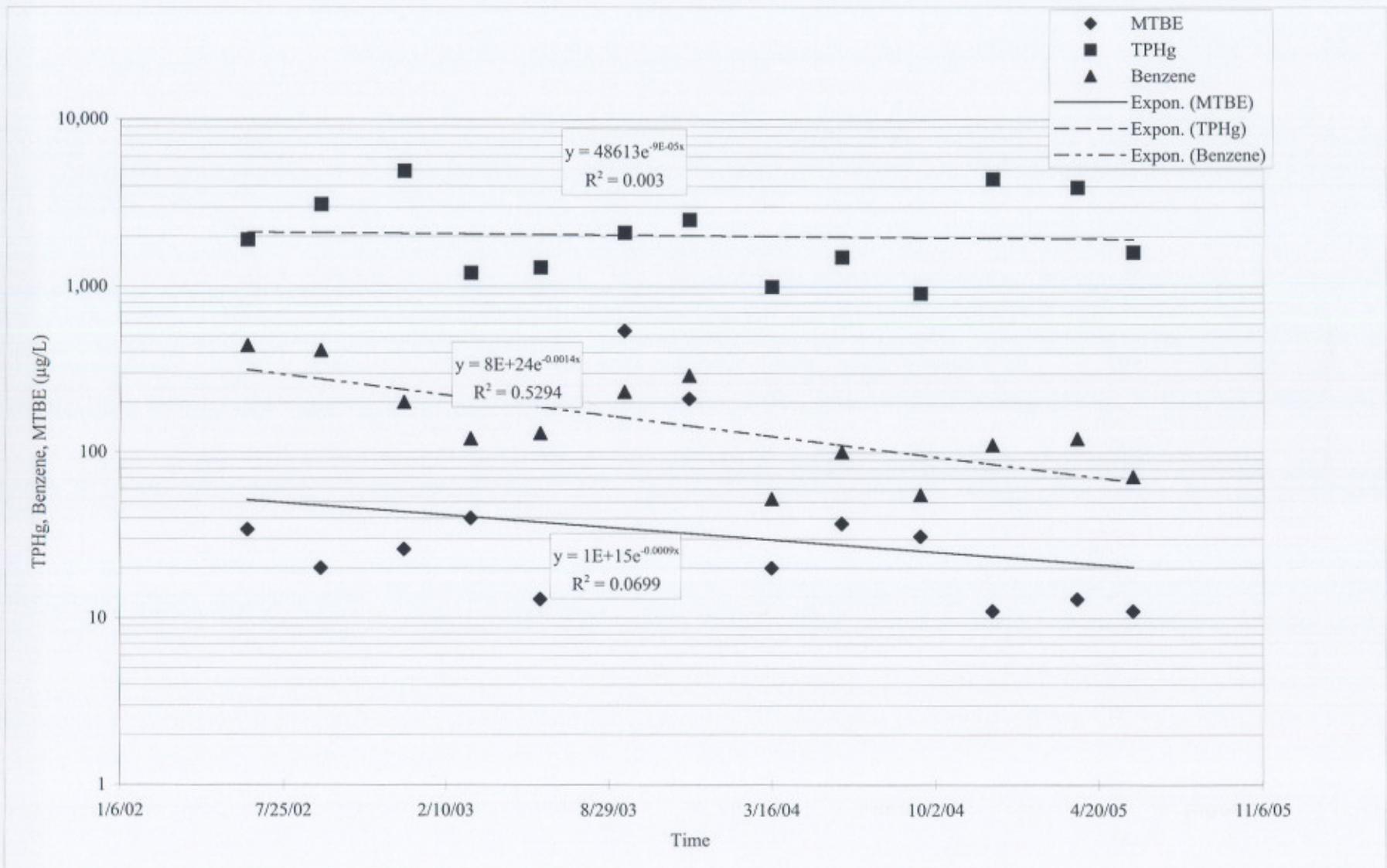
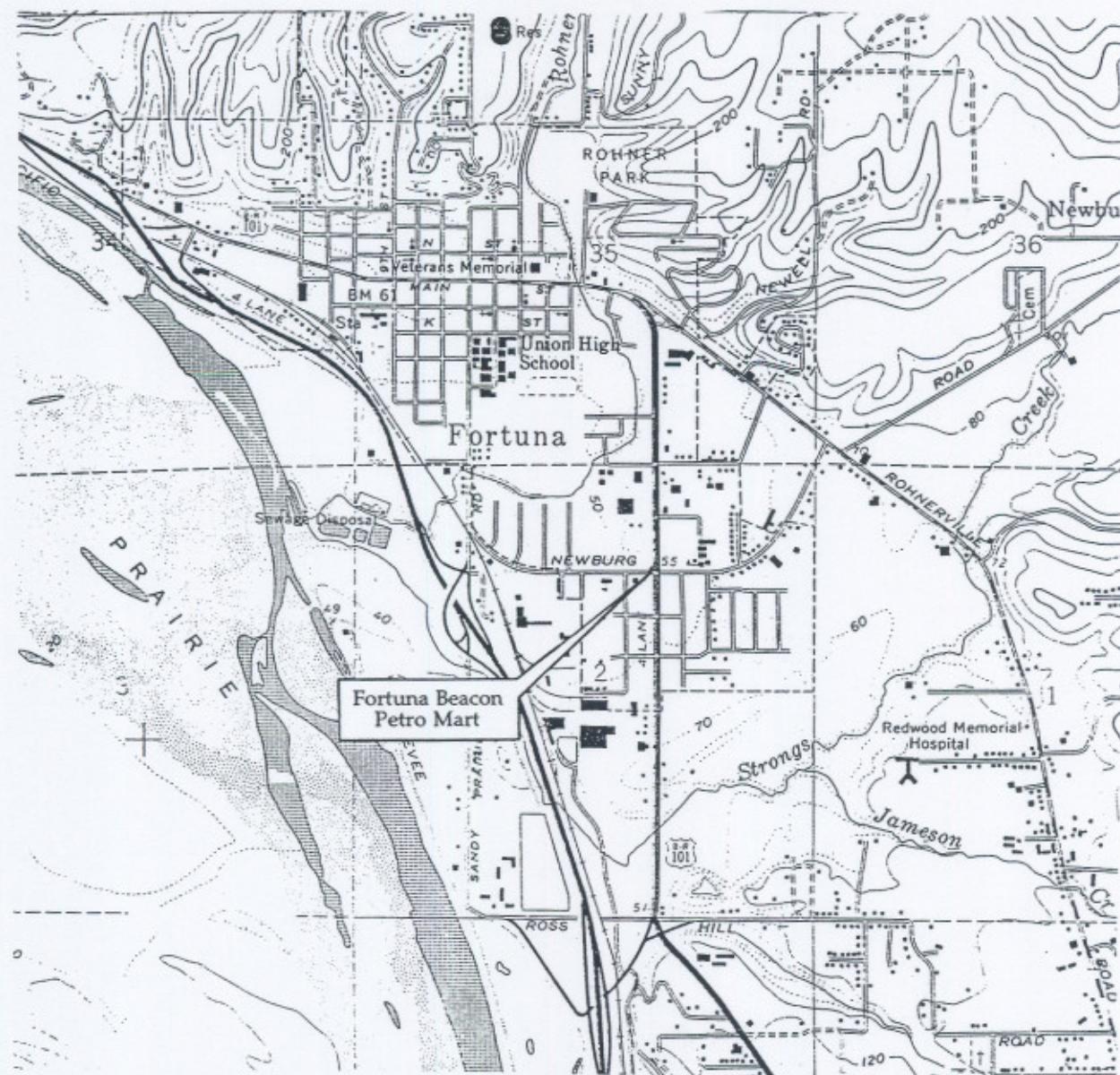


Chart 7
Dissolved-Phase Hydrocarbon Concentrations vs. Time for RW-5
 Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, CA





SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
1 5 0
CONTOUR INTERVAL 40 FEET

MAP SOURCE: USGS Fortuna Quadrangle



Site Location Map

Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

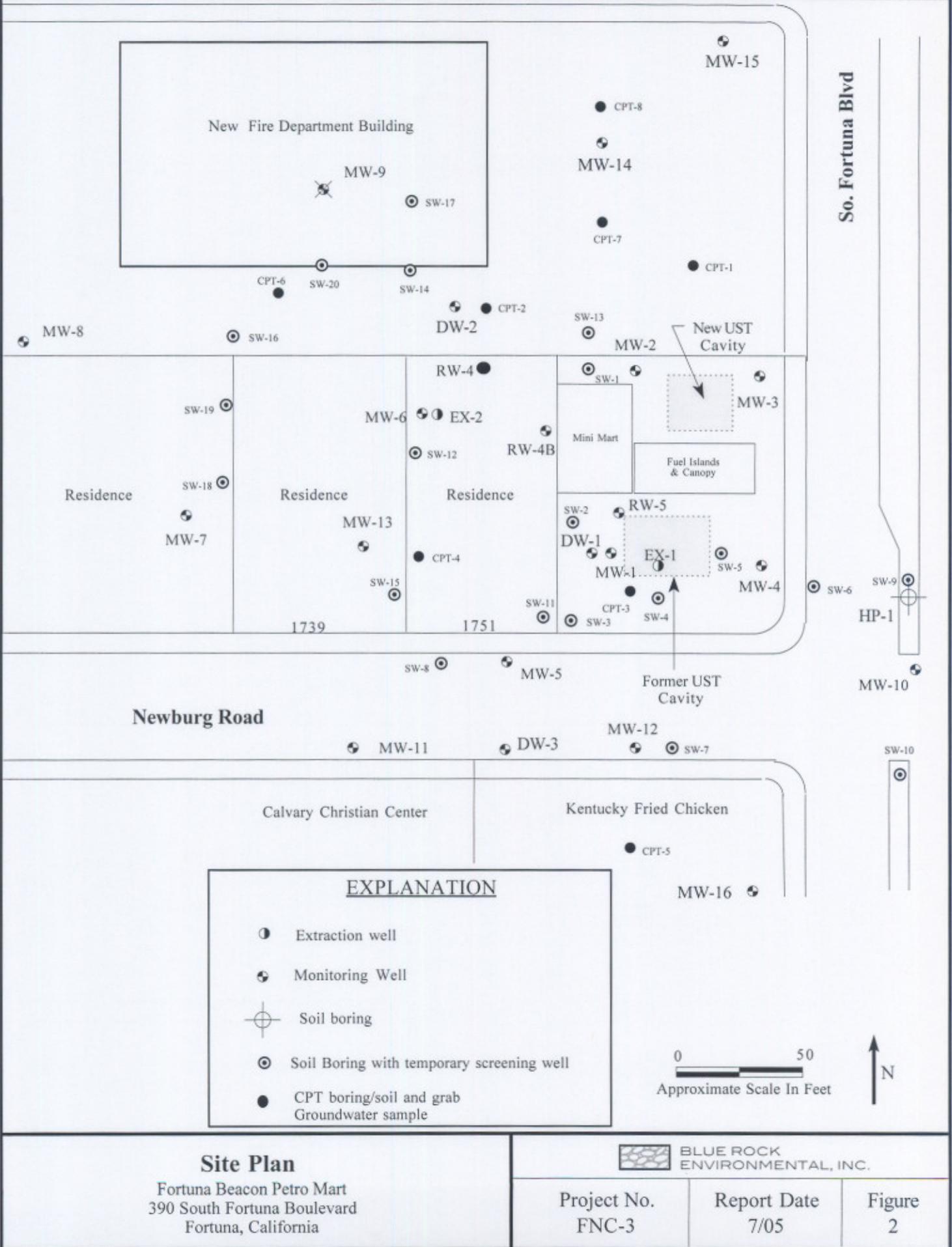


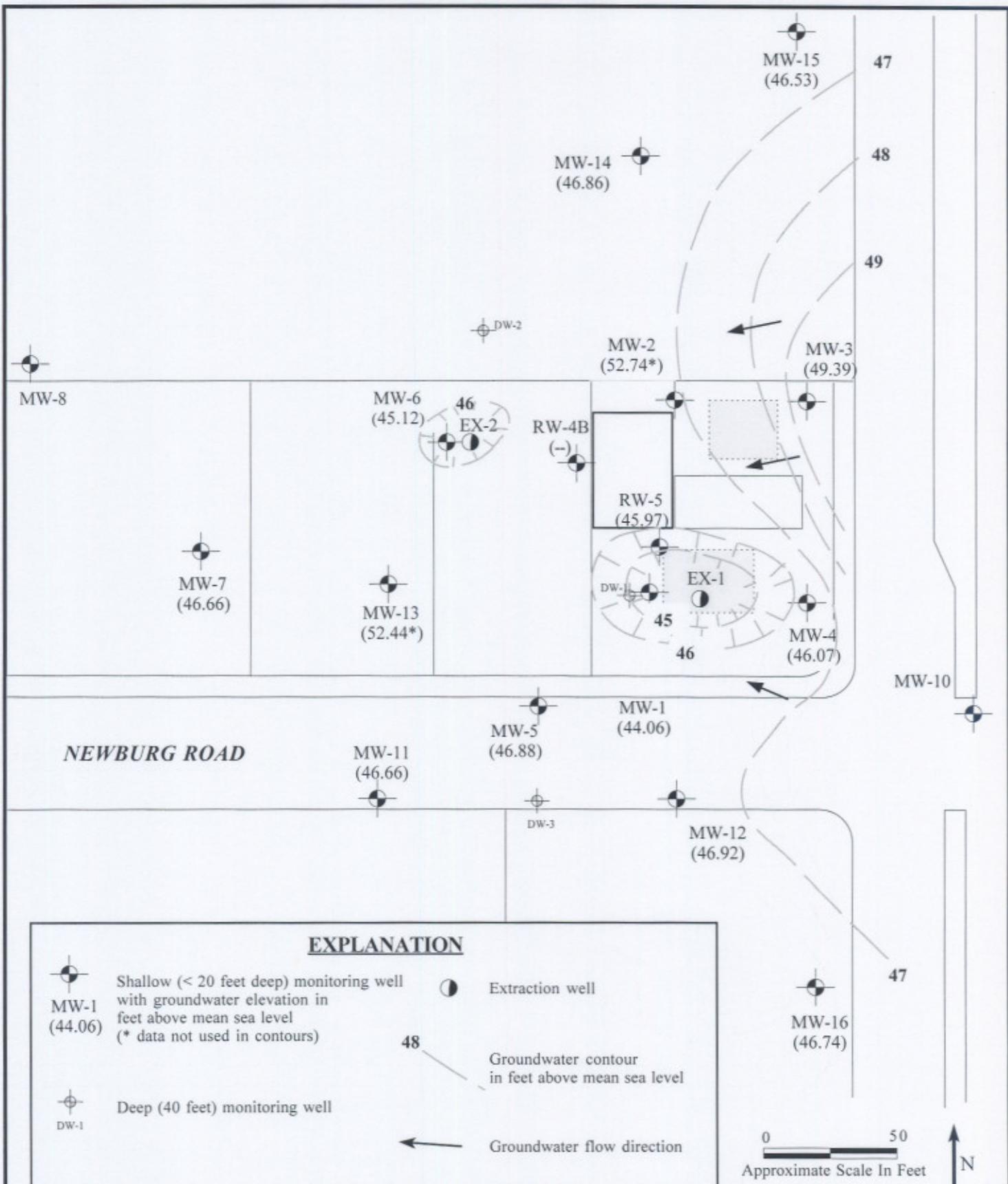
BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
FNC-3

Date
7/04

Figure
1





**Groundwater Elevations and Gradient Map
Shallow Wells 6/1/05**

Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

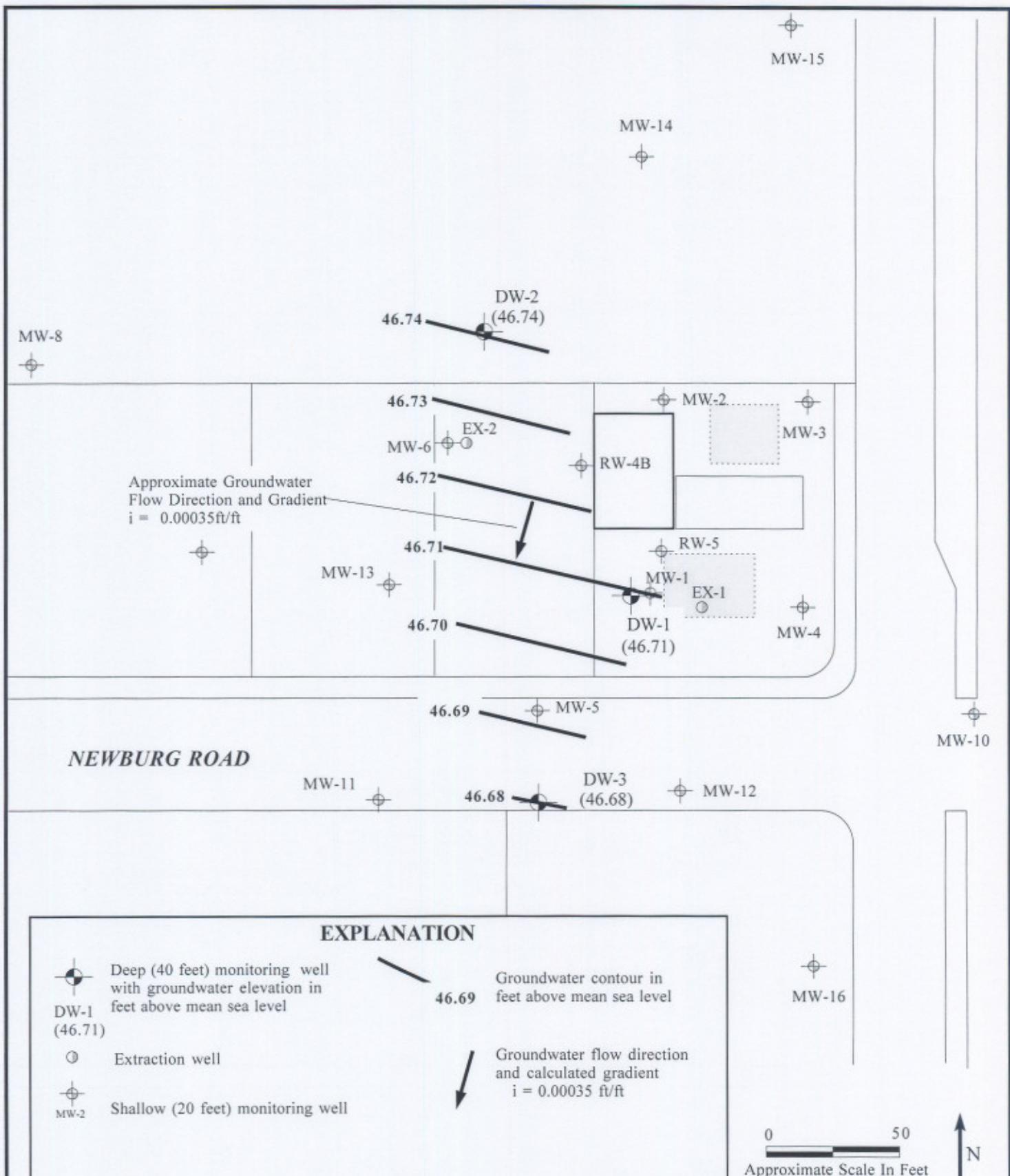


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7/05

Figure
3a



Groundwater Elevations and Gradient Map

Deep Wells 6/1/05

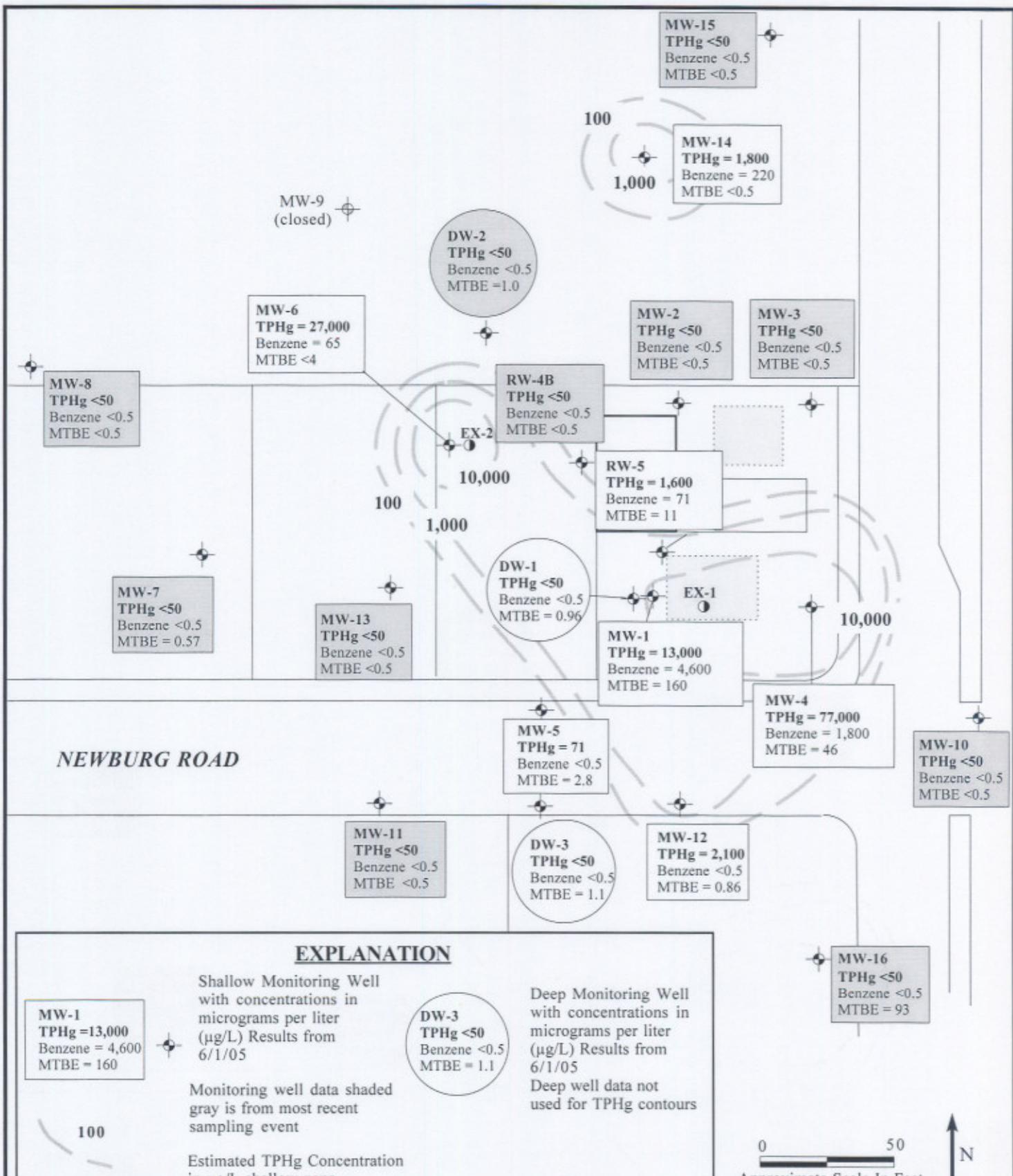
Fortuna Beacon Petro Mart
 390 South Fortuna Boulevard
 Fortuna, California

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7/05

Figure
3b



Dissolved-Phase TPHg Distribution Map
6/1/05

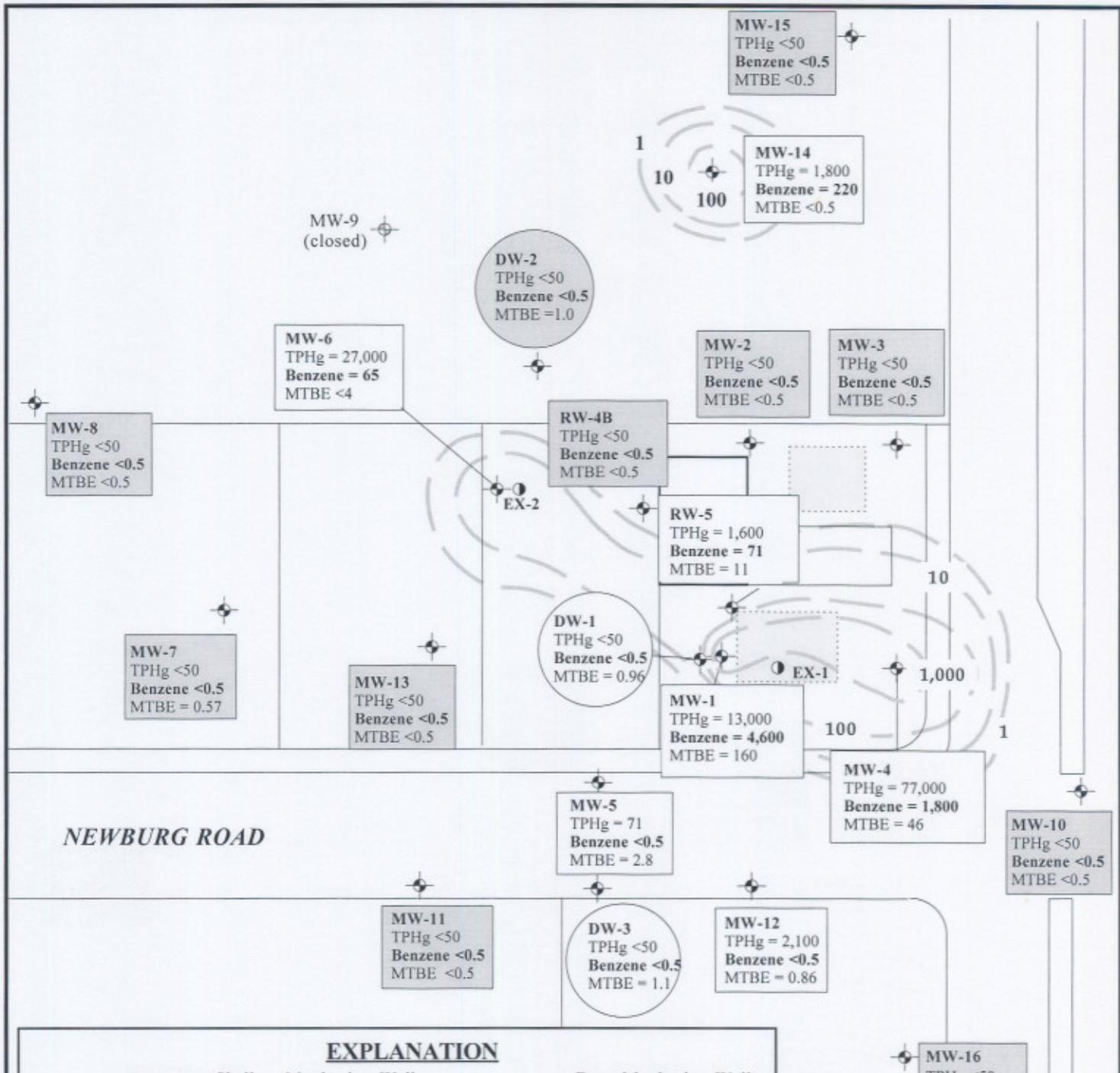
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

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7/05

Figure
4a



EXPLANATION

MW-1
TPHg = 13,000
Benzene = 4,600
MTBE = 160

Shallow Monitoring Well
with concentrations in
micrograms per liter
(µg/L) Results from
6/1/05

DW-3
TPHg <50
Benzene <0.5
MTBE = 1.1

Deep Monitoring Well
with concentrations in
micrograms per liter
(µg/L) Results from
6/1/05

MW-16
TPHg <50
Benzene <0.5
MTBE = 93

Monitoring well data shaded
gray is from most recent
sampling event

Estimated Benzene Concentration
in µg/L shallow zone

0 50
Approximate Scale In Feet



Dissolved-Phase Benzene Distribution Map
6/1/05

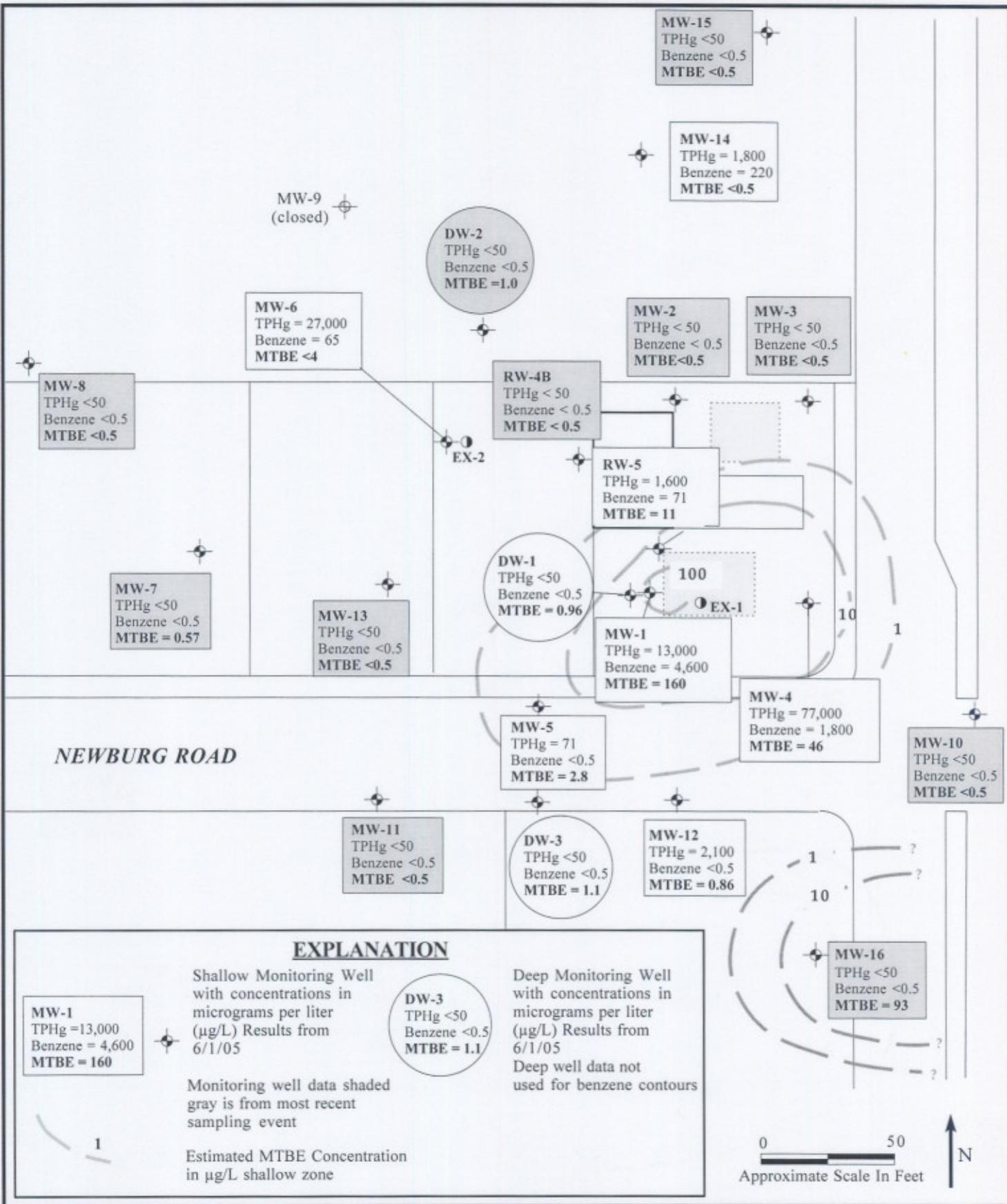
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

BLUE ROCK
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Project No.
FNC-3

Report Date
7/05

Figure
4b



Dissolved-Phase MTBE Distribution Map
6/1/05

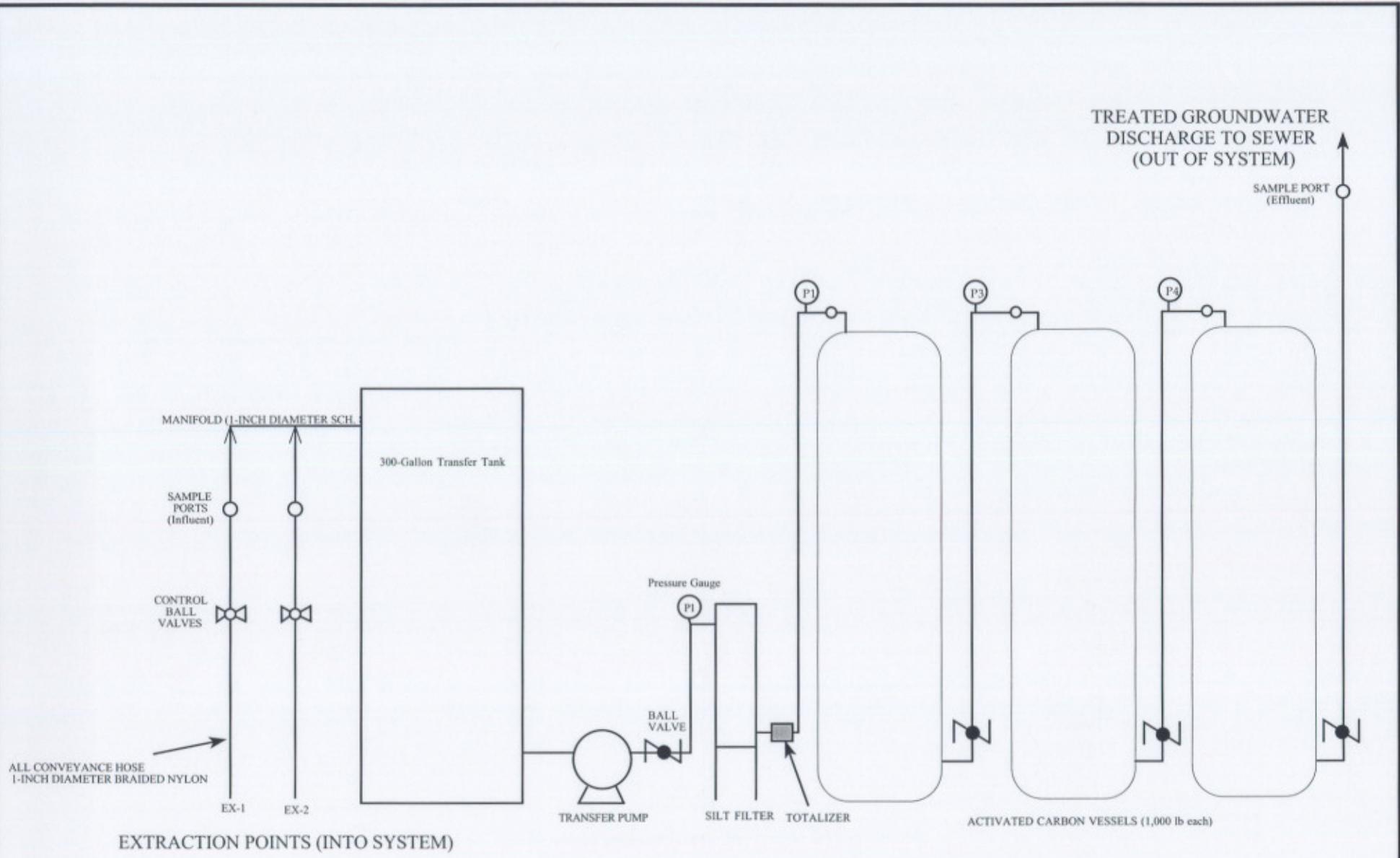
Fortuna Beacon Petro Mart
390 South Fortuna Boulevard
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.
FNC-3

Figure Date
7/05

Figure
4c



Groundwater Extraction System Schematic

Former Beacon Petro Mart
390 South Fortuna Boulevard
Fotuna, California



BLUE ROCK
ENVIRONMENTAL, INC.

Project No.
FNC-3

Report Date
7/05

Figure
5

GAGING DATA/PURGE CALCULATIONS

Job No.: FNC-3 Location: 390 S. Fortuna Blvd. Date: 6/1/05 Tech(s): JL

WELL NO.	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES
X MW-1	4"	19.23	13.71	5.52	3,58	10.76	0	DO=2.32
MW-2		19.76	6.05				0	DO=0.55
MW-3		19.62	9.23				0	DO=1.93
X MW-4		19.82	12.11	7.71	5.01	15.03	slight shear	DO=1.27
X MW-5		19.59	9.67	9.92	6.44	19.34	0	DO=1.55
X MW-6		20.00	10.08	9.92	6.44	19.34	shear	DO=1.40
MW-7		19.88	8.56				0	DO=8.77
MW-11		19.79	9.58				0	DO=4.44
X MW-12		20.00	9.98	10.02	6.51	19.51	0	DO=1.80
MW-13	↓	19.47	3.37				0	DO=0.71
X MW-14	2"	21.18	9.66	11.52	1.84	5.52	0	DO=0.83
MW-15	↓	18.61	10.85				0	DO=0.81
MW-16		19.52	10.82				0	DO=0.80
X DW-1		39.77	11.10	28.67	4.58	13.76	0	DO=1.10
DW-2		39.30	9.25				0	DO=4.03
X DW-3	↓	37.50	9.77	27.73	4.43	13.31	0	DO=0.65
RW-4B	4"	20.00	XX	XX	XX	XX	XX	XX
X RW-5	4"	20.00	12.33	7.67	4.98	14.94	0	DO=7.40

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,

well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK
ENVIRONMENTAL, INC.